

METHODS FOR MONITORING MULTIPLE GENE EXPRESSION

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Cross-Reference to Related Application

This application is a continuation-in-part of pending U.S. application Serial No. 09/273,623 filed March 22, 1999, which application is fully incorporated herein by reference.

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Background of the Invention

Field of the Invention

The present invention relates to methods for monitoring expression of a plurality of genes in filamentous fungal cells. The present invention also relates to expressed sequenced tags and to substrates and computer readable media containing such expressed sequenced tags for monitoring expression of a plurality of genes in filamentous fungal cells.

Description of the Related Art

Microarray technology is increasingly becoming the method of choice for the quantitative and simultaneous analysis of the expression levels of many thousands of genes. Microarray analyses typically follow the steps of gene selection, microarray synthesis, sample preparation, array hybridization, detection, and data analysis (Watson *et al.*, 1998, *Current Opinion in Biotechnology* 9: 609-614).

PCR-amplified coding sequences of genomic DNA are particularly useful in microarrays for obtaining global expression profiles where the genome of the organism has been fully sequenced.

Chu *et al.*, 1998, *Science* 282: 699-705 disclose the use of microarrays containing PCR-amplified genomic coding sequences for determining the temporal expression of *Saccharomyces cerevisiae* genes during sporulation.

For other organisms whose genomes have not been sequenced, global expression profiles may be obtained with arraying (1) random genomic DNA segments or clones (*e.g.*, from a genomic DNA library); (2) random cDNA clones (*e.g.*, from one or more cDNA

libraries) that are uncharacterized at the DNA sequence level; or (3) EST clones that have been sequenced and partially characterized with respect to putative identification and function.

However, there are disadvantages with using random genomic or cDNA clones from organisms whose genomes have not been fully sequenced. These disadvantages include (1) more than one gene may be represented on a single clone; (2) no gene(s) may be encoded on a single clone; (3) extensive characterization and DNA sequencing is required to follow-up array spots that appear interesting; and (4) duplicity, multiplicity, and reduncancy add to the follow-up work.

Expressed sequenced tags (ESTs) are partial cDNA sequences of expressed genes. Simply stated, an EST is a segment of a sequence from a cDNA clone that corresponds to the mRNA of a specific gene. The use of sequenced ESTs in microarrays compared to genomic clones or random cDNA clones provides several advantages especially for organisms whose genomes have not been sequenced. First, one spot on an array equals one gene or open reading frame, so redundancy is eliminated. Second, since sequence information is available so that redundancy and follow-up characterization is minimized. Third, EST microarrays can be organized based on function of the gene products to facilitate analysis of the results (*e.g.*, ESTs encoding enzymes from the same metabolic pathway can be arranged or grouped accordingly).

Ruan *et al.*, 1998, *The Plant Journal* 15: 821-833, disclose the use of microarrays containing *Arabidopsis thaliana* EST sequences for determining the temporal expression of *Arabidopsis thaliana* genes in root, leaf, and two stages of floral development.

Iyer *et al.*, 1999, *Science* 283: 83-87, disclose the use of microarrays containing human EST sequences for determining the temporal expression of human fibroblast cells in response to serum.

Hayward *et al.*, 2000, *Molecular Microbiology* 35: 6-14, disclose shotgun DNA microarrays and stage-specific gene expression in *Plasmodium falciparum* malaria.

Filamentous fungi are increasingly being used as host microorganisms for the industrial production of enzymes and other proteins whether endogenous or heterogenous to the microorganisms. There is a need in the art to provide methods for monitoring the global expression of genes from filamentous fungal cells to improve the production potential of these microorganisms.

It is an object of the present invention to provide alternative methods for monitoring expression of a plurality of genes in filamentous fungal cells.

Summary of the Invention

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The present invention relates to methods for monitoring differential expression of a plurality of genes in a first filamentous fungal cell relative to expression of the same genes in one or more second filamentous fungal cells, comprising:

10 (a) adding a mixture of fluorescence-labeled nucleic acids isolated from the filamentous fungal cells to a substrate containing an array of filamentous fungal ESTs under conditions where the nucleic acids hybridize to complementary sequences of the ESTs in the array, wherein the nucleic acids from the first filamentous fungal cell and the one or more second filamentous fungal cells are labeled with a first fluorescent reporter and one or more different second fluorescent reporters, respectively; and

15 (b) examining the array by fluorescence under fluorescence excitation conditions wherein the relative expression of the genes in the filamentous fungal cells is determined by the observed fluorescence emission color of each spot in the array in which (i) the ESTs in the array that hybridize to the nucleic acids obtained from either the first or the one or more second filamentous fungal cells produce a distinct first fluorescence emission color or one or
20 more second fluorescence emission colors, respectively, and (ii) the ESTs in the array that hybridize to the nucleic acids obtained from both the first and one or more second filamentous fungal cells produce a distinct combined fluorescence emission color. In a preferred embodiment, the filamentous fungal ESTs are selected from the group consisting of SEQ ID NOs. 1-7860, nucleic acid fragments of SEQ ID NOs. 1-7860, and nucleic acid
25 sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to the sequences of SEQ ID NOs. 1-7860.

The present invention further relates to isolated ESTs obtained from *Fusarium venenatum* (SEQ ID NOs. 1-3770), *Aspergillus niger* (SEQ ID NOs. 3771-4376), *Aspergillus oryzae* (SEQ ID NOs. 4377-7401), and *Trichoderma reesei* (SEQ ID NOs. 7402-7860).

30 The present invention also relates to computer readable media and substrates containing an array of such filamentous fungal ESTs for monitoring differential expression of a plurality of genes in a first filamentous fungal cell relative to expression of the same genes

in one or more second filamentous fungal cells.

Detailed Description of the Invention

5 The present invention relates to methods for monitoring differential expression of a plurality of genes in a first filamentous fungal cell relative to expression of the same genes in one or more second filamentous fungal cells. The methods comprise (a) adding a mixture of fluorescence-labeled nucleic acids isolated from the two or more filamentous fungal cells with different fluorescent reporters for each cell's nucleic acids to a substrate containing an
10 array of filamentous fungal ESTs under conditions where the nucleic acids hybridize to complementary sequences of the ESTs in the array; and (b) examining the array by fluorescence under fluorescence excitation conditions wherein the relative expression of the genes in the two or more cells is determined by the observed fluorescence emission color of each spot in the array.

15 The methods of the present invention may be used to monitor global expression of a plurality of genes from a filamentous fungal cell, discover new genes, identify possible functions of unknown open reading frames, and monitor gene copy number variation and stability. For example, the global view of changes in expression of genes may be used to provide a picture of the way in which filamentous fungal cells adapt to changes in culture
20 conditions, environmental stress, or other physiological provocation. Other possibilities for monitoring global expression include spore morphogenesis, recombination, metabolic or catabolic pathway engineering.

 The methods of the present invention are particularly advantageous because one spot on an array equals one gene or open reading frame; extensive follow-up characterization is
25 unnecessary since sequence information is available, and EST microarrays can be organized based on function of the gene products.

Expressed Sequenced Tags

 The term "expressed sequenced tag" or "EST" is defined herein as a segment of a
30 sequence from a cDNA clone of an expressed filamentous fungal gene. The term "EST" will be understood to also include two or more ESTs assembled into a contig. In the methods of the present invention, the filamentous fungal ESTs described herein preferably represent a

plurality of genes present in the two or more filamentous fungal cells to be evaluated.

ESTs are generally generated as follows: Total polyadenylated mRNA is isolated from a filamentous fungal cell and reverse transcribed into total cDNA. The total cDNA is digested with a restriction endonuclease, size-selected by agarose gel electrophoresis, isolated, and ligated into a vector, *e.g.*, pZER0-2.1. The ligation mixture is transformed into competent *E. coli* cells and transformants are selected under selective pressure, *e.g.*, kanamycin selection. The cDNA libraries isolated from the selected transformants are amplified, isolated, and partially sequenced. The partial sequences are then compared to sequences in various publicly available databases for identification.

Any method known in the art may be used for generating ESTs (see, for example, Adams *et al.*, 1991, *Science* 252: 1651-1656; Fields, 1996, *Tibtech* 14: 286-289; Weinstock *et al.*, 1994, *Current Opinion in Biotechnology* 5: 599-603; Matsubara and Okubo, 1993, *Current Opinions in Biotechnology* 4: 672-677; Nelson *et al.*, 1997, *Fungal Genet. Biol.* 21: 348-363; Roe *et al.*, <http://www.genome.ou.edu/fungal.html>).

In the methods of the present invention, the filamentous fungal ESTs are preferably at least about 50 bp in length, more preferably at least about 100 bp in length, even more preferably at least about 150 bp in length, and most preferably at least about 200 bp in length. Furthermore, the ESTs are preferably directional ESTs. However, nondirectional ESTs may also be used. A "directional EST" is defined as a cDNA cloned in the same orientation relative to the vector cloning sites, *e.g.*, 5'→3' or 3'→5'.

The filamentous fungal ESTs may be obtained from any filamentous fungal cell but preferably from an *Acremonium*, *Aspergillus*, *Fusarium*, *Humicola*, *Mucor*, *Myceliophthora*, *Neurospora*, *Penicillium*, *Thielavia*, *Tolyocladium*, or *Trichoderma* cell, and more preferably from an *Aspergillus aculeatus*, *Aspergillus awamori*, *Aspergillus foetidus*, *Aspergillus japonicus*, *Aspergillus nidulans*, *Aspergillus niger*, *Aspergillus oryzae*, *Fusarium bactridioides*, *Fusarium cerealis*, *Fusarium crookwellense*, *Fusarium culmorum*, *Fusarium graminearum*, *Fusarium gramineum*, *Fusarium heterosporum*, *Fusarium negundi*, *Fusarium oxysporum*, *Fusarium reticulatum*, *Fusarium roseum*, *Fusarium sambucinum*, *Fusarium sarcochroum*, *Fusarium sporotrichioides*, *Fusarium sulphureum*, *Fusarium torulosum*, *Fusarium trichothecioides*, *Fusarium venenatum*, *Humicola insolens*, *Humicola lanuginosa*, *Mucor miehei*, *Myceliophthora thermophila*, *Neurospora crassa*, *Penicillium purpurogenum*, *Thielavia terrestris*, *Trichoderma harzianum*, *Trichoderma koningii*, *Trichoderma*

longibrachiatum, *Trichoderma reesei*, or *Trichoderma viride* cell.

In a preferred embodiment, the ESTs are obtained from *Fusarium venenatum*. In a more preferred embodiment, the ESTs are obtained from *Fusarium venenatum* A3/5, which was originally deposited as *Fusarium graminearum* ATCC 20334 and recently reclassified as
5 *Fusarium venenatum* by Yoder and Christianson, 1998, *Fungal Genetics and Biology* 23: 62-80 and O'Donnell *et al.*, 1998, *Fungal Genetics and Biology* 23: 57-67; as well as taxonomic equivalents of *Fusarium venenatum* regardless of the species name by which they are currently known. In another more preferred embodiment, the *Fusarium venenatum* cell is a morphological mutant of *Fusarium venenatum* A3/5 or *Fusarium venenatum* ATCC 20334,
10 as disclosed in WO 97/26330. In a most preferred embodiment, the *Fusarium venenatum* ESTs are selected from the group consisting of SEQ ID NOs. 1-3770, nucleic acid fragments of SEQ ID NOs. 1-3770, and nucleic acid sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to SEQ ID NOs. 1-3770.

15 In another preferred embodiment, the ESTs are obtained from *Aspergillus niger*. In another more preferred embodiment, the *Aspergillus niger* ESTs are selected from the group consisting of SEQ ID NOs. 3771-4376, nucleic acid fragments of SEQ ID NOs. 3771-4376, and nucleotide sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to SEQ ID NOs. 3771-4376.

20 In another preferred embodiment, the ESTs are obtained from *Aspergillus oryzae*. In another more preferred embodiment, the ESTs are obtained from *Aspergillus oryzae* strain IFO 4177. In another most preferred embodiment, the *Aspergillus oryzae* ESTs are selected from the group consisting of SEQ ID NOs. 4377-7401, nucleic acid fragments of SEQ ID NOs. 4377-7401, and nucleic acid sequences having at least 90%, preferably at least 95%,
25 more preferably at least 99%, and most preferably at least 99.9% homology to the sequences of SEQ ID NOs. 4377-7401.

In another preferred embodiment, the ESTs are obtained from *Trichoderma reesei*. In another more preferred embodiment, the ESTs are obtained from *Trichoderma reesei* strain RutC-30 (Montenecourt and Eveleigh, 1979, *Adv. Chem. Ser.* 181: 289-301). In another most
30 preferred embodiment, the *Trichoderma reesei* ESTs are selected from the group consisting of SEQ ID NOs. 7402-7860, nucleic acid fragments of SEQ ID NOs. 7402-7860, or nucleic acid sequences having at least 95%, preferably at least 99% and most preferably at least

99.9% homology to a sequence of SEQ ID NOs. 7402-7860.

For purposes of the present invention, the degree of homology between two nucleic acid sequences is determined by the Wilbur-Lipman method (Wilbur and Lipman, 1983, *Proceedings of the National Academy of Science USA* 80: 726-730) using the
5 LASERGENE™ MEGALIGN™ software (DNASTAR, Inc., Madison, WI) with an identity table and the following multiple alignment parameters: Gap penalty of 10 and gap length penalty of 10. Pairwise alignment parameters are Ktuple=3, gap penalty=3, and windows=20.

Microarrays

10 The term "an array of ESTs" is defined herein as a linear or two-dimensional array of preferably discrete elements of ESTs, each having a finite area, formed on the surface of a solid support.

The term "microarray" is defined herein as an array of EST elements having a density of discrete EST elements of at least about 100/cm², and preferably at least about 1000/cm².

15 The EST elements in a microarray have typical dimensions, *e.g.*, diameters, in the range of between about 10 to about 250 μm, preferably in the range of between about 10 to about 200 μm, more preferably in the range of between about 20 to about 150 μm, even more preferably in the range of between about 20 to about 100 μm, most preferably in the range of between about 20 to about 75 μm, and even most preferably in the range of between about 25 to about
20 50 μm, and are separated from other EST elements in the microarray by about the same distance.

Methods and instruments for forming microarrays on the surface of a solid support are well known in the art. See, for example, U.S. Patent No. 5,807,522; U.S. Patent No. 5,700,637; and U.S. Patent No. 5,770,151. The instrument may be an automated device such
25 as described in U.S. Patent No. 5,807,522.

The term "a substrate containing an array of ESTs" is defined herein as a solid support having deposited on the surface of the support one or more of a plurality of ESTs for use in detecting binding of labeled cDNAs to the ESTs.

The substrate may, in one aspect, be a glass support (*e.g.*, glass slide) having a
30 hydrophilic or hydrophobic coating on the surface of the support, and an array of distinct ESTs electrostatically bound non-covalently to the coating, where each distinct EST is disposed at a separate, defined position.

Each microarray in the substrate preferably contains at least 10^3 distinct ESTs in a surface area of less than about 1 cm^2 . Each distinct EST (i) is disposed at a separate, defined position in the array, (ii) has a length of at least 50 bp, and (iii) is present in a defined amount between about 0.1 femtomoles and 100 nanomoles or higher if necessary.

5 For a hydrophilic coating, the glass slide is coated by placing a film of a polycationic polymer with a uniform thickness on the surface of the slide and drying the film to form a dried coating. The amount of polycationic polymer added should be sufficient to form at least a monolayer of polymers on the glass surface. The polymer film is bound to the surface via electrostatic binding between negative silyl-OH groups on the surface and charged
10 cationic groups in the polymers. Such polycationic polymers include, but are not limited to, polylysine and polyarginine.

Another coating strategy employs reactive aldehydes to couple DNA to the slides (Schena *et al.*, 1996, *Proceedings of the National Academy of Science USA* 93: 10614-10619; Heller *et al.*, 1997, *Proceedings of the National Academy of Science USA* 94: 2150-2155).

15 Alternatively, the surface may have a relatively hydrophobic character, *i.e.*, one that causes aqueous medium deposited on the surface to bead. A variety of known hydrophobic polymers, such as polystyrene, polypropylene, or polyethylene, have desirable hydrophobic properties, as do glass and a variety of lubricant or other hydrophobic films that may be applied to the support surface. A support surface is "hydrophobic" if an aqueous droplet
20 applied to the surface does not spread out substantially beyond the area size of the applied droplet, wherein the surface acts to prevent spreading of the droplet applied to the surface by hydrophobic interaction with the droplet.

In another aspect, the substrate may be a multi-cell substrate where each cell contains a microarray of ESTs, and preferably an identical microarray, formed on a porous surface.
25 For example, a 96-cell array may typically have array dimensions between about 12 and 244 mm in width and 8 and 400 mm in length, with the cells in the array having width and length dimension of $1/12$ and $1/8$ the array width and length dimensions, respectively, *i.e.*, between about 1 and 20 in width and 1 and 50 mm in length.

The solid support may include a water-impermeable backing such as a glass slide or
30 rigid polymer sheet, or other non-porous material. Formed on the surface of the backing is a water-permeable film which is formed of porous material. Such porous materials include, but are not limited to, nitrocellulose membrane nylon, polypropylene, and PVDF polymer. The

thickness of the film is preferably between about 10 and 1000 μm . The film may be applied to the backing by spraying or coating, or by applying a preformed membrane to the backing.

The film surface may be partitioned into a desirable array of cells by water-impermeable grid lines typically at a distance of about 100 to 2000 μm above the film surface. The grid lines can be formed on the surface of the film by laying down an uncured flowable resin or elastomer solution in an array grid, allowing the material to infiltrate the porous film down to the backing, and then curing the grid lines to form the cell-array substrate.

The barrier material of the grid lines may be a flowable silicone, wax-based material, thermoset material (*e.g.*, epoxy), or any other useful material. The grid lines may be applied to the solid support using a narrow syringe, printing techniques, heat-seal stamping, or any other useful method known in the art.

Each well preferably contains a microarray of distinct ESTs. "Distinct ESTs" as applied to the ESTs forming a microarray is defined herein as an array member which is distinct from other array members on the basis of a different EST sequence, and/or different concentrations of the same or distinct ESTs, and/or different mixtures of distinct ESTs or different-concentrations of ESTs. Thus an array of "distinct ESTs" may be an array containing, as its members, (i) distinct ESTs, which may have a defined amount in each member, (ii) different, graded concentrations of given-sequence ESTs, and/or (iii) different-composition mixtures of two or more distinct ESTs.

However, any type of substrate known in the art may be used in the methods of the present invention.

The delivery of a known amount of a selected EST to a specific position on the support surface is preferably performed with a dispensing device equipped with one or more tips for insuring reproducible deposition and location of the ESTs and for preparing multiple arrays. Any dispensing device known in the art may be used in the methods of the present invention. See, for example, U.S. Patent No. 5,807,522. The dispensing device preferably contains a plurality of tips.

For liquid-dispensing on a hydrophilic surface, the liquid will have less of a tendency to bead, and the dispensed volume will be more sensitive to the total dwell time of the dispenser tip in the immediate vicinity of the support surface.

For liquid-dispensing on a hydrophobic surface, flow of fluid from the tip onto the

support surface will continue from the dispenser onto the support surface until it forms a liquid bead. At a given bead size, *i.e.*, volume, the tendency of liquid to flow onto the surface will be balanced by the hydrophobic surface interaction of the bead with the support surface, which acts to limit the total bead area on the surface, and by the surface tension of the droplet, which tends toward a given bead curvature. At this point, a given bead volume will have formed, and continued contact of the dispenser tip with the bead, as the dispenser tip is being withdrawn, will have little or no effect on bead volume.

The desired deposition volume, *i.e.*, bead volume, formed is preferably in the range 2 pl (picoliters) to 2 nl (nanoliters), although volumes as high as 100 nl or more may be dispensed. It will be appreciated that the selected dispensed volume will depend on (i) the "footprint" of the dispenser tip(s), *i.e.*, the size of the area spanned by the tip(s), (ii) the hydrophobicity of the support surface, and (iii) the time of contact with and rate of withdrawal of the tip(s) from the support surface. In addition, bead size may be reduced by increasing the viscosity of the medium, effectively reducing the flow time of liquid from the dispensing device onto the support surface. The drop size may be further constrained by depositing the drop in a hydrophilic region surrounded by a hydrophobic grid pattern on the support surface.

At a given tip size, bead volume can be reduced in a controlled fashion by increasing surface hydrophobicity, reducing time of contact of the tip with the surface, increasing rate of movement of the tip away from the surface, and/or increasing the viscosity of the medium. Once these parameters are fixed, a selected deposition volume in the desired pl to nl range can be achieved in a repeatable fashion.

After depositing a liquid droplet of an EST sample at one selected location on a support, the tip may be moved to a corresponding position on a second support, the EST sample is deposited at that position, and this process is repeated until the EST sample has been deposited at a selected position on a plurality of supports.

This deposition process may then be repeated with another EST sample at another microarray position on each of the supports.

The diameter of each EST region is preferably between about 20-200 μm . The spacing between each region and its closest (non-diagonal) neighbor, measured from center-to-center, is preferably in the range of about 20-400 μm . Thus, for example, an array having a center-to-center spacing of about 250 μm contains about 40 regions/ cm^2 or 1,600

regions/cm². After formation of the array, the support is treated to evaporate the liquid of the droplet forming each region, to leave a desired array of dried, relatively flat EST regions. This drying may be done by heating or under vacuum.

5 Filamentous Fungal Cells

In the methods of the present invention, the two or more filamentous fungal cells may be any filamentous fungal cell where one of the cells is used as a reference for identifying differences in expression of the same or similar complement of genes in the other cell. In one aspect, the two or more cells are the same cell. For example, they may be compared under different growth conditions, e.g., oxygen limitation, nutrition, and/or physiology. In another aspect, one or more cells are mutants of the reference cell. For example, the mutant(s) may have a different phenotype. In a further aspect, the two or more cells are of different species (e.g., *Aspergillus oryzae* and *Aspergillus sojae*). In another further aspect, the two or more cells are of different genera. In an even further aspect, one or more cells are transformants of the reference cell, wherein the one or more transformants exhibit a different property. For example, the transformants may have an improved phenotype relative to the reference cell and/or one of the other transformants. The term "phenotype" is defined herein as an observable or outward characteristic of a cell determined by its genotype and modulated by its environment. Such improved phenotypes may include, but are not limited to, improved secretion or production of a protein or compound, reduced or no secretion or production of a protein or compound, improved or reduced expression of a gene, desirable morphology, an altered growth rate under desired conditions, relief of over-expression mediated growth inhibition, or tolerance to low oxygen conditions.

The filamentous fungal cells may be any filamentous fungal cells, but preferably *Acremonium*, *Aspergillus*, *Fusarium*, *Humicola*, *Mucor*, *Myceliophthora*, *Neurospora*, *Penicillium*, *Thielavia*, *Tolypocladium*, or *Trichoderma* cells, and more preferably *Aspergillus aculeatus*, *Aspergillus awamori*, *Aspergillus foetidus*, *Aspergillus japonicus*, *Aspergillus nidulans*, *Aspergillus niger*, *Aspergillus oryzae*, *Fusarium bactridioides*, *Fusarium cerealis*, *Fusarium crookwellense*, *Fusarium culmorum*, *Fusarium graminearum*, *Fusarium graminum*, *Fusarium heterosporum*, *Fusarium negundi*, *Fusarium oxysporum*, *Fusarium reticulatum*, *Fusarium roseum*, *Fusarium sambucinum*, *Fusarium sarcochroum*, *Fusarium sporotrichioides*, *Fusarium sulphureum*, *Fusarium torulosum*, *Fusarium*

trichothecioides, *Fusarium venenatum*, *Humicola insolens*, *Humicola lanuginosa*, *Mucor miehei*, *Myceliophthora thermophila*, *Neurospora crassa*, *Penicillium purpurogenum*, *Thielavia terrestris*, *Trichoderma harzianum*, *Trichoderma koningii*, *Trichoderma longibrachiatum*, *Trichoderma reesei*, or *Trichoderma viride* cells.

5 In a preferred embodiment, the filamentous fungal cells are *Fusarium* or *Aspergillus* cells. In a more preferred embodiment, the *Fusarium* cells are *Fusarium venenatum* cells. In another more preferred embodiment, the *Aspergillus* cells are *Aspergillus niger* cells. In another more preferred embodiment, the *Aspergillus* cells are *Aspergillus oryzae* cells.

10 In a most preferred embodiment, the *Fusarium venenatum* cells are *Fusarium venenatum* A3/5 cells as described herein. In another most preferred embodiment, the *Fusarium venenatum* cells are morphological mutants of *Fusarium venenatum* A3/5 as described herein. In another most preferred embodiment, the *Aspergillus oryzae* cells are *Aspergillus oryzae* strain IFO 4177 cells.

15 In the methods of the present invention, the cells are cultivated in a nutrient medium suitable for growth using methods well known in the art for isolation of the nucleic acids to be used as probes. For example, the cells may be cultivated by shake flask cultivation, small-scale or large-scale fermentation (including continuous, batch, fed-batch, or solid state fermentations) in laboratory or industrial fermentors performed in a suitable medium. The cultivation takes place in a suitable nutrient medium comprising carbon and nitrogen sources
20 and inorganic salts, using procedures known in the art. Suitable media are available from commercial suppliers or may be prepared according to published compositions (e.g., in catalogues of the American Type Culture Collection).

Nucleic Acid Probes

25 The nucleic acid probes from the two or more filamentous fungal cells may be any nucleic acid including genomic DNA, cDNA, and RNA, and may be isolated using standard methods known in the art. For example, cDNA probes may be obtained from the total polyadenylated mRNA isolated from the cells using standard methods and reverse transcribed into total cDNA.

30 The populations of isolated nucleic acid probes may be labeled with colorimetric, radioactive, fluorescent reporters, or other reporters using methods known in the art (Chen *et al.*, 1998, *Genomics* 51: 313-324; DeRisi *et al.*, 1997, *Science* 278: 680-686; U.S. Patent No.

5,770,367).

In a preferred embodiment, the probes are labeled with fluorescent reporters. For example, cDNA probes may be labeled during reverse transcription from the respective mRNA pools by incorporation of fluorophores as dye-labeled nucleotides (DeRisi *et al.*, 1997, *supra*), *e.g.*, Cy5-labeled deoxyuridine triphosphate, or the isolated cDNAs may be directly labeled with different fluorescent functional groups. Fluorescent-labeled nucleotides include, but are not limited to, fluorescein conjugated nucleotide analogs (green fluorescence), lissamine nucleotide analogs (red fluorescence). Fluorescent functional groups include, but are not limited to, Cy3 (a green fluorescent dye) and Cy5 (red fluorescent dye).

Array Hybridization

The labeled nucleic acids from the two or more filamentous fungal cells are then added to a substrate containing an array of ESTs under conditions where the nucleic acid pools from the two or more filamentous fungal cells hybridize to complementary sequences of the ESTs in the array. For purposes of the present invention, hybridization indicates that the labeled nucleic acids from the two or more cells hybridize to the ESTs under very low to very high stringency conditions.

A small volume of the labeled nucleic acids mixture is loaded onto the substrate. The solution will spread to cover the entire microarray. In the case of a multi-cell substrate, one or more solutions are loaded into each cell which stop at the barrier elements.

For nucleic acid probes of at least about 100 nucleotides in length, very low to very high stringency conditions are defined as prehybridization and hybridization at 42°C in 5X SSPE, 0.3% SDS, 200 µg/ml sheared and denatured salmon sperm DNA, and either 25% formamide for very low and low stringencies, 35% formamide for medium and medium-high stringencies, or 50% formamide for high and very high stringencies, following standard Southern blotting procedures.

For nucleic acid probes of at least about 100 nucleotides in length, the carrier material is finally washed three times each for 15 minutes using 2 x SSC, 0.2% SDS preferably at least at 45°C (very low stringency), more preferably at least at 50°C (low stringency), more preferably at least at 55°C (medium stringency), more preferably at least at 60°C (medium-high stringency), even more preferably at least at 65°C (high stringency), and most preferably at least at 70°C (very high stringency).

For shorter nucleic acid probes which are about 50 nucleotides to about 100 nucleotides in length, stringency conditions are defined as prehybridization, hybridization, and washing post-hybridization at 5°C to 10°C below the calculated T_m using the calculation according to Bolton and McCarthy (1962, *Proceedings of the National Academy of Sciences USA* 48:1390) in 0.9 M NaCl, 0.09 M Tris-HCl pH 7.6, 6 mM EDTA, 0.5% NP-40, 1X Denhardt's solution, 1 mM sodium pyrophosphate, 1 mM sodium monobasic phosphate, 0.1 mM ATP, and 0.2 mg of yeast RNA per ml following standard Southern blotting procedures.

For shorter nucleic acid probes which are about 50 nucleotides to about 100 nucleotides in length, the carrier material is washed once in 6X SSC plus 0.1% SDS for 15 minutes and twice each for 15 minutes using 6X SSC at 5°C to 10°C below the calculated T_m .

The choice of hybridization conditions will depend on the degree of homology between the ESTs and the nucleic acids obtained from the two or more filamentous fungal cells. For example, where the cells are the same cell from which the ESTs were obtained, high stringency conditions may be most suitable. Where the cells are from a genus or species different from which the ESTs were obtained, low or medium stringency conditions may be more suitable.

In a preferred embodiment, the hybridization is conducted under low stringency conditions. In a more preferred embodiment, the hybridization is conducted under medium stringency conditions. In a most preferred embodiment, the hybridization is conducted under high stringency conditions.

The entire solid support is then reacted with detection reagents if needed and analyzed using standard calorimetric, radioactive, or fluorescent detection means. All processing and detection steps are performed simultaneously to all of the microarrays on the solid support ensuring uniform assay conditions for all of the microarrays on the solid support.

Detection

The most common detection method is laser-induced fluorescence detection using confocal optics (Cheung *et al.*, 1998, *Nat. Genet.* 18: 225-230). The array is examined under fluorescence excitation conditions such that (i) the ESTs in the array that hybridize to the nucleic acid probes obtained from one of the first cell and one or more second cells produces a distinct first fluorescence emission color or one or second fluorescence emission colors, respectively, and (ii) ESTs in the array that hybridize to substantially equal numbers of

nucleic acid probes obtained from the first cell and one of the one or more second cells produce a distinct combined fluorescence emission color, respectively; wherein the relative expression of the genes in the two or more cells can be determined by the observed fluorescence emission color of each spot in the array.

5 The fluorescence excitation conditions are based on the selection of the fluorescence reporters. For example, Cy3 and Cy5 reporters are detected with solid state lasers operating at 532 nm and 632 nm, respectively.

Other methods of detection may be used as described herein

10 **Data Analysis**

The fluorescence data obtained from the scanned image may then be analyzed using any of the commercially available image analysis software. The software preferably identifies array elements, subtracts backgrounds, deconvolutes multi-color images, flags or removes artifacts, verifies that controls have performed properly, and normalizes the signals
15 (Chen *et al.*, 1997, *Journal of Biomedical Optics* 2: 364-374).

Several computational methods have been described for the analysis and interpretation of microarray-based expression profiles including cluster analysis (Eisen *et al.*, 1998, *Proc. Nat. Acad. Sci. USA* 95: 14863-14868), parametric ordering of genes (Spellman *et al.*, 1998, *Mol. Biol. Cell* 9: 3273-3297), and supervised clustering methods based on representative
20 hand-picked or computer-generated expression profiles (Chu *et al.*, 1998, *Science* 282: 699-705).

Computer Readable Media

The filamentous fungal ESTs described herein may be "provided" in a variety of
25 mediums to facilitate their use. The term "provided" refers to a manufacture comprising an array of filamentous fungal ESTs. Such manufactures provide a large portion of the genomes of *Fusarium venenatum*, *Aspergillus niger*, *Aspergillus oryzae*, or *Trichoderma reesei* and parts thereof (*e.g.*, an open reading frame (ORF)) in a form which allows one skilled in the art to examine the manufacture using means not directly applicable to examining the genome or
30 a subset thereof as it exists in nature or in purified form.

Thus, the present invention also relates to such a manufacture in the form of a computer readable medium comprising an array of ESTs selected from the group consisting

of SEQ ID NOs. 1-7860, nucleic acid fragments of SEQ ID NOs. 1-7860, and nucleic acid sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to SEQ ID NOs. 1-7860.

In a preferred embodiment, the computer readable medium comprises an array of
5 *Fusarium venenatum* ESTs selected from the group consisting of SEQ ID NOs. 1-3770, nucleic acid fragments of SEQ ID NOs. 1-3770, and nucleic acid sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to SEQ ID NOs. 1-3770. In a more preferred embodiment, the computer readable medium comprises an array of ESTs selected from the group consisting of SEQ ID
10 NOs. 1-3770.

In another preferred embodiment, the computer readable medium comprises an array of *Aspergillus niger* ESTs selected from the group consisting of SEQ ID NOs. 3771-4376, nucleic acid fragments of SEQ ID NOs. 3771-4376, and nucleotide sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least
15 99.9% homology to SEQ ID NOs. 3771-4376. In another more preferred embodiment, the computer readable medium comprises an array of ESTs selected from the group consisting of SEQ ID NOs. 3771-4376.

In another preferred embodiment, the computer readable medium comprises an array of *Aspergillus oryzae* ESTs selected from the group consisting of SEQ ID NOs. 4377-7401, nucleic acid fragments of SEQ ID NOs. 4377-7401, and nucleic acid sequences having at
20 least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to the sequences of SEQ ID NOs. 4377-7401. In another more preferred embodiment, the computer readable medium comprises an array of ESTs selected from the group consisting of SEQ ID NOs. 4377-7401.

In another preferred embodiment, the computer readable medium comprises an array of *Trichoderma reesei* ESTs selected from the group consisting of SEQ ID NOs. 7402-7860, nucleic acid fragments of SEQ ID NOs. 7402-7860, or nucleic acid sequences having at least 95%, preferably at least 99% and most preferably at least 99.9% homology to a sequence of
25 SEQ ID NOs. 7402-7860. In another more preferred embodiment, the computer readable medium comprises an array of *Trichoderma reesei* ESTs selected from the group consisting of SEQ ID NOs. 7402-7860.
30

In one application of this embodiment, the ESTs of the present invention can be recorded on computer readable media. The term "computer readable media" is defined herein as any medium which can be read and accessed directly by a computer. Such computer readable media include, but are not limited to, magnetic storage media, *e.g.*, floppy discs, hard disc storage medium, and magnetic tape; optical storage media, *e.g.*, CD-ROM, DVD; electrical storage media, *e.g.*, RAM and ROM; and hybrids of these categories, *e.g.*, magnetic/optical storage media. One skilled in the art can readily appreciate how any of the presently known computer readable media can be used to create a manufacture comprising computer readable medium having recorded thereon a nucleotide sequence of the present invention. Likewise, it will be clear to those of skill how additional computer readable media that may be developed also can be used to create analogous manufactures having recorded thereon a nucleotide sequence of the present invention.

As used herein, "recorded" refers to a process for storing information on computer readable medium. One skilled in the art can readily adopt any of the presently known methods for recording information on computer readable medium to generate manufactures comprising the nucleotide sequence information of the present invention.

A variety of data storage structures are available for creating a computer readable medium having recorded thereon a nucleotide sequence of the present invention. The choice of the data storage structure will generally be based on the means chosen to access the stored information. In addition, a variety of data processor programs and formats can be used to store the nucleotide sequence information of the present invention on computer readable medium. The sequence information can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and Microsoft Word, or represented in the form of an ASCII file, stored in a database application, such as DB2, Sybase, Oracle, or the like. A skilled artisan can readily adapt any number of data-processor structuring formats (*e.g.*, text file or database) in order to obtain computer readable medium having recorded thereon the nucleotide sequence information of the present invention.

Various computer software are publicly available that allow a skilled artisan to access sequence information provided in a computer readable medium. Thus, by providing in computer readable form an array of ESTs selected from the group consisting of SEQ ID NOs. 1-7860, nucleic acid fragments of SEQ ID NOs. 1-7860, and nucleic acid sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least

99.9% homology to SEQ ID NOs. 1-7860 enables one skilled in the art to routinely access the provided sequence information for a wide variety of purposes.

Software utilizing the BLAST (Altschul *et al.*, 1990, *Journal of Molecular Biology* 215: 403-410) and BLAZE (Brutlag *et al.*, 1993, *Comp. Chem.* 17: 203-207) search algorithms may be used to identify open reading frames (ORFs) within a genome of interest, which contain homology to ORFs or proteins from both *Fusarium venenatum*, *Aspergillus niger*, *Aspergillus oryzae*, or *Trichoderma reesei* and from other organisms. Among the ORFs discussed herein are protein encoding fragments of the *Fusarium venenatum*, *Aspergillus niger*, *Aspergillus oryzae*, and *Trichoderma reesei* genome useful in producing commercially important proteins, such as enzymes used in fermentation reactions and in the production of commercially useful metabolites.

The present invention further provides systems, particularly computer-based systems, which contain the sequence information described herein. Such systems are designed to identify, among other things, genes and gene products - many of which could be products themselves or used to genetically modify an industrial expression host through increased or decreased expression of a specific gene sequence(s).

The term "a computer-based system" is defined here the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware means of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. One skilled in the art can readily appreciate that any currently available computer-based system is suitable for use in the present invention.

As stated above, the computer-based systems of the present invention comprise a data storage means having stored therein a nucleotide sequence of the present invention and the necessary hardware means and software means for supporting and implementing a search means.

The term "data storage means" is defined herein as memory which can store nucleotide sequence information of the present invention, or a memory access means which can access manufactures having recorded thereon the nucleotide sequence information of the present invention.

The term "search means" refers is defined herein as one or more programs which are implemented on the computer-based system to compare a target sequence or target structural

motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the present genomic sequences which match a particular target sequence or target motif. A variety of known algorithms are disclosed publicly and a variety of commercially available software for conducting search means are
5 and can be used in the computer-based systems of the present invention. Examples of such software includes, but is not limited to, MacPattern (Fuchs, 1991, *Comput. Appl. Biosci.* 7: 105-106), BLASTN and BLASTX (NCBI). One skilled in the art can readily recognize that any one of the available algorithms or implementing software packages for conducting homology searches can be adapted for use in the present computer-based systems.

10 The term "target sequence" is defined here as any DNA or amino acid sequence of six or more nucleotides or two or more amino acids. One skilled in the art can readily recognize that the longer a target sequence is, the less likely a target sequence will be present as a random occurrence in the database. The most preferred sequence length of a target sequence is from about 10 to 100 amino acids or from about 30 to 300 nucleotide residues. However, it
15 is well recognized that searches for commercially important fragments, such as sequence fragments involved in gene expression and protein processing, may be of shorter length.

The term "a target structural motif" or "target motif" is defined herein as any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration which is formed upon the folding of the target
20 motif. There are a variety of target motifs known in the art. Protein target motifs include, but are not limited to, enzyme active sites and signal sequences, substrate and cofactor binding domains, transmembrane domains, and sites for post-translational modifications. Nucleic acid target motifs include, but are not limited to, promoter sequences, hairpin structures and inducible expression elements (protein binding sequences), repeats, palindromes, dyad
25 symmetries, intron-exon boundaries, transcription and translation start and stop sites, and polyadenylation signals.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. A preferred format for an output means ranks fragments of the *Fusarium venenatum*, *Aspergillus niger*,
30 *Aspergillus oryzae*, and *Trichoderma reesei* genomic sequences possessing varying degrees of homology to the target sequence or target motif. Such presentation provides one skilled in

the art with a ranking of sequences which contain various amounts of the target sequence or target motif and identifies the degree of homology contained in the identified fragment.

A variety of comparing means can be used to compare a target sequence or target motif with the data storage means to identify sequence fragments of the *Fusarium venenatum*, *Aspergillus niger*, *Aspergillus oryzae*, and *Trichoderma reesei* genomes. For example, implementing software which utilize the BLAST and BLAZE algorithms, described in Altschul *et al.*, 1990, *Journal of Molecular Biology* 215: 403-410, may be used to identify open reading frames within the *Fusarium venenatum*, *Aspergillus niger*, *Aspergillus oryzae*, or *Trichoderma reesei* genome or the genomes of other organisms. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer-based systems of the present invention. Of course, suitable proprietary systems that may be known to those of skill also may be employed in this regard.

Tables 1-4 in the present application provide listings of sequences, which can be products themselves or used to genetically modify an industrial expression host through increased or decreased expression of a specific gene sequence(s). These were generated by applying the above-mentioned computer based systems to the sequences of the invention. Tables 1-4 are generally referred to as lists of annotated EST sequences and furthermore serve an important task in the interpretation of the data generated by the method of the present invention.

Substrates

The present invention also relates to substrates as described herein comprising an array of filamentous fungal ESTs. In a preferred embodiment, the substrate comprises an array of filamentous fungal ESTs selected from the group consisting of SEQ ID NOs. 1-7860, nucleic acid fragments of SEQ ID NOs. 1-7860, and nucleic acid sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to SEQ ID NOs. 1-7860. In a more preferred embodiment, the substrate comprises an array of EST sequences selected from the group consisting of SEQ ID NOs. 1-7860.

In a preferred embodiment, the substrate comprises an array of *Fusarium venenatum* ESTs selected from the group consisting of SEQ ID NOs. 1-3770, nucleic acid fragments of

SEQ ID NOs. 1-3770, and nucleic acid sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to SEQ ID NOs. 1-3770. In a more preferred embodiment, the substrate comprises an array of *Fusarium venenatum* ESTs selected from the group consisting of SEQ ID NOs. 1-3770.

5 In another preferred embodiment, the substrate comprises an array of *Aspergillus niger* ESTs selected from the group consisting of SEQ ID NOs. 3771-4376, nucleic acid fragments of SEQ ID NOs. 3771-4376, and nucleotide sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to SEQ ID NOs. 3771-4376. In another more preferred embodiment, the substrate
10 comprises an array of *Aspergillus niger* ESTs selected from the group consisting of SEQ ID NOs. 3771-4376.

In another preferred embodiment, the substrate comprises an array of *Aspergillus oryzae* ESTs selected from the group consisting of SEQ ID NOs. 4377-7401, nucleic acid fragments of SEQ ID NOs. 4377-7401, and nucleic acid sequences having at least 90%,
15 preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to the sequences of SEQ ID NOs. 4377-7401. In another more preferred embodiment, the substrate comprises an array of *Aspergillus oryzae* ESTs selected from the group consisting of SEQ ID NOs. 4377-7401.

In another preferred embodiment, the substrate comprises an array of *Trichoderma reesei* ESTs selected from the group consisting of SEQ ID NOs. 7402-7860, nucleic acid fragments of SEQ ID NOs. 7402-7860, or nucleic acid sequences having at least 95%,
20 preferably at least 99% and most preferably at least 99.9% homology to a sequence of SEQ ID NOs. 7402-7860. In another more preferred embodiment, the substrate comprises an array of *Trichoderma reesei* ESTs selected from the group consisting of SEQ ID NOs. 7402-7860.

Isolated Nucleic Acids

The present invention also relates to isolated filamentous fungal ESTs.

In a preferred embodiment, the isolated ESTs are *Fusarium venenatum* ESTs selected from the group consisting of SEQ ID NOs. 1-3770, nucleic acid fragments of SEQ ID NOs.
30 1-3770, and nucleic acid sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to SEQ ID NOs. 1-3770. In a more preferred embodiment, the *Fusarium venenatum* ESTs are SEQ ID NOs. 1-

3770.

In another preferred embodiment, the isolated ESTs are *Aspergillus niger* ESTs selected from the group consisting of SEQ ID NOs. 3771-4376, nucleic acid fragments of SEQ ID NOs. 3771-4376, and nucleotide sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to SEQ ID NOs. 3771-4376. In another more preferred embodiment, the *Aspergillus niger* ESTs are SEQ ID NOs. 3771-4376.

In another preferred embodiment, the isolated ESTs are *Aspergillus oryzae* ESTs selected from the group consisting of SEQ ID NOs. 4377-7401, nucleic acid fragments of SEQ ID NOs. 4377-7401, and nucleic acid sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to the sequences of SEQ ID NOs. 4377-7401.

In another preferred embodiment, the isolated ESTs are *Trichoderma reesei* ESTs selected from the group consisting of SEQ ID NOs. 7402-7860, nucleic acid fragments of SEQ ID NOs. 7402-7860, or nucleic acid sequences having at least 95%, preferably at least 99% and most preferably at least 99.9% homology to a sequence of SEQ ID NOs. 7402-7860. In another more preferred embodiment, the *Trichoderma reesei* ESTs are SEQ ID NOs. 7402-7860.

The present invention also relates to isolated nucleic acid sequences comprising any of the filamentous fungal ESTs selected from the group consisting of SEQ ID NOs. 1-7860, nucleic acid fragments of SEQ ID NOs. 1-7860, and nucleic acid sequences having at least 90%, preferably at least 95%, more preferably at least 99%, and most preferably at least 99.9% homology to the sequences of SEQ ID NOs. 1-7860.

The present invention is further described by the following examples which should not be construed as limiting the scope of the invention.

Examples

Chemicals used as buffers and substrates were commercial products of at least reagent grade.

Example 1: Fermentation and Mycelial Tissue

Fusarium venenatum CC1-3, a morphological mutant of *Fusarium* strain ATCC 20334 (Wiebe *et al.*, 1991, *Mycol. Research* 95: 1284-1288), was grown in a two-liter lab-scale fermentor using a fed-batch fermentation scheme with maltose syrup as the carbon source and yeast extract. Ammonium phosphate was provided in the feed. The pH was maintained at 6 to 6.5, and the temperature was kept at 30°C with positive dissolved oxygen. Mycelial samples were harvested at 2, 4, 6, and 8 days post-inoculum and quick-frozen in liquid nitrogen. The samples were stored at -80°C until they were disrupted for RNA extraction.

Aspergillus niger strain Bo-95 was fermented in a minimal salts, maltodextrin based medium with a subsequent carbon feed of glucose at pH 4.75 and 34°C. Mycelia were harvested and frozen at -80°C. The *Aspergillus niger* mycelial sample was ground to a fine powder in the presence of liquid nitrogen prior to extraction of total cellular RNA.

Aspergillus oryzae strain A1560 (IFO 4177) was grown in two 20-liter lab fermentors on a 10-liter scale at 34°C using yeast extract and dextrose in the batch medium, and maltose syrup, urea, yeast extract, and trace metals in the feed. Fungal mycelia from the first lab fermentor were harvested by filtering through a cellulose filter (pore size 7-11 microns) after 27 hours, 68.5 hours, 118 hours, and 139 hours of growth. The growth conditions for the second fermentor were identical to the first one, except for a slower growth rate during the first 20 hours of fermentation. Fungal mycelia from the second lab fermentor were harvested as above after 68.3 hours of growth. The harvested mycelia were immediately frozen in liquid N₂ and stored at -80°C.

The *Aspergillus oryzae* strain A1560 was also grown in four 20-liter lab fermentors on a 10-liter scale at 34°C using sucrose in the batch medium, and maltose syrup, ammonia, and yeast extract in the feed.

The first of the four fermentations was carried out at pH 4.0.

The second of the four fermentations was carried out at pH 7.0 with a constant low agitation rate (550 rpm) to achieve the rapid development of reductive metabolism.

The third of the four fermentations was carried out at pH 7.0 under phosphate limited growth by lowering the amount of phosphate and yeast extract added to the batch medium.

The fourth of the four fermentations was carried out at pH 7.0 and 39°C. After 75 hours of fermentation the temperature was lowered to 34°C. At 98 hours of fermentation the

addition of carbon feed was stopped and the culture was allowed to starve for the last 30 hours of the fermentation.

Fungal mycelial samples from the four lab fermentors above were then collected as described above, immediately frozen in liquid N₂, and stored at -80°C.

5 *Aspergillus oryzae* strain A1560 was also grown on Whatman filters placed on Coven agar plates for two days. The mycelia were collected, immediately frozen in liquid N₂, and stored at -80°C.

10 *Aspergillus oryzae* strain A1560 was also grown at 30°C in 150 ml shake flasks containing RS-2 medium (Kofod *et al.*, 1994, *Journal of Biological Chemistry* 269: 29182-29189) or a defined minimal medium. Fungal mycelia were collected after 5 days of growth in the RS-2 medium and 3 and 4 days of growth in the defined minimal medium, immediately frozen in liquid N₂, and stored at -80°C.

15 *Aspergillus oryzae* strain AL-11 was fermented similarly as described above for *Aspergillus oryzae* strain A1560 in a 20-liter lab fermentor on a 10-liter scale at 34°C using yeast extract and dextrose in the batch medium, and maltose syrup, urea, yeast extract, and trace metals in the feed with a slow growth rate during the first 20 hours of fermentation. Fungal mycelia were harvested at 74.1 hours as above, immediately frozen in liquid N₂ and stored at -80°C.

20 *Trichoderma reesei* strain RutC-30 (Montenecourt and Eveleigh, 1979, *Adv. Chem. Ser.* 181: 289-301) was cultivated in a pilot scale fermentation tank in growth medium containing a complex carbon source. Fungal mycelium was collected from a one-liter sample, and immediately frozen in liquid N₂ and stored at -80°C.

Example 2: *Fusarium venenatum* Directional cDNA Library Construction

25 Total cellular RNA was extracted from the *Fusarium venenatum* mycelial samples described in Example 1 according to the method of Timberlake and Barnard (1981, *Cell* 26: 29-37), and the RNA samples were analyzed by Northern hybridization after blotting from 1% formaldehyde-agarose gels (Davis *et al.*, 1986, *Basic Methods in Molecular Biology*, Elsevier Science Publishing Co., Inc., New York). Polyadenylated mRNA fractions were
30 isolated from total RNA with an mRNA Separator Kit™ (Clontech Laboratories, Inc., Palo Alto, CA) according to the manufacturer's instructions. Double-stranded cDNA was synthesized using approximately 5 µg of poly(A)+ mRNA according to the method of Gubler

and Hoffman (1983, *Gene* 25: 263-269) except a *NotI*-(dT)₁₈ primer (Pharmacia Biotech, Inc., Piscataway, NJ) was used to initiate first strand synthesis. The cDNA was treated with mung bean nuclease (Boehringer Mannheim Corporation, Indianapolis, IN) and the ends were made blunt with T4 DNA polymerase (New England Biolabs, Beverly, MA).

5 The cDNA was digested with *NotI*, size selected by agarose gel electrophoresis (ca. 0.7-4.5 kb), and ligated with pZER0-2.1 (Invitrogen Corporation, Carlsbad, CA) which had been cleaved with *NotI* plus *EcoRV* and dephosphorylated with calf-intestine alkaline phosphatase (Boehringer Mannheim Corporation, Indianapolis, IN). The ligation mixture was used to transform competent *E. coli* TOP10 cells (Invitrogen Corporation, Carlsbad, CA).
10 Transformants were selected on 2YT agar plates (Miller, 1992, *A Short Course in Bacterial Genetics. A Laboratory Manual and Handbook for Escherichia coli and Related Bacteria*, Cold Spring Harbor Press, Cold Spring Harbor, New York) which contained kanamycin at a final concentration of 50 µg/ml.

 Two independent directional cDNA libraries were constructed using the plasmid
15 cloning vector pZER0-2.1. Library A was made using mRNA from mycelia harvested at four days, and Library B was constructed with mRNA from the six day time point. One library (prepared from 4 day cells) consisted about 7.5×10^4 independent clones and a second library B (prepared from 6 day cells) consisted of roughly 1.2×10^5 clones. Miniprep DNA was isolated from forty colonies in each library and checked for the presence and size of cDNA
20 inserts. In this analysis 39 of 40 colonies (97.5%) from Library A contained inserts with sizes ranging from 600 bp to 2200 bp (avg. = 1050 bp). Similarly, 39 of 40 colonies (97.5%) picked from Library B had inserts with sizes ranging from 800 bp to 3600 bp (avg. = 1380 bp). Each of these libraries was amplified using standard techniques (Birren, *et al.*, 1998, *Genome Analysis, Volume 2, Detecting Genes, A Laboratory Manual*, Cold Spring Harbor
25 Laboratory Press, Cold Spring Harbor, NY), and each amplified library was stored as a DNA pool at 4°C in 10 mM Tris-HCl, pH 7.6, 1 mM EDTA.

Example 3: *Fusarium venenatum* EST Template Preparation

 From each directional cDNA library described in Example 2, transformant colonies
30 were picked directly from the transformation plates into 96-well microtiter dishes which contained 200 µl of 2YT broth (Miller, 1992, *supra*) with 50 µg/ml kanamycin. The plates were incubated overnight at 37°C without shaking. After incubation 100 µl of sterile 50%

glycerol was added to each well. The transformants were replicated into secondary, deep-dish 96-well microculture plates (Advanced Genetic Technologies Corporation, Gaithersburg, MD) containing 1 ml of Magnificent Broth™ (MacConnell Research, San Diego, CA) supplemented with 50 µg of kanamycin per ml in each well. The primary microtiter plates were stored frozen at -80°C. The secondary deep-dish plates were incubated at 37°C overnight with vigorous agitation (300 rpm) on rotary shaker. To prevent spilling and cross-contamination, and to allow sufficient aeration, each secondary culture plate was covered with a polypropylene pad (Advanced Genetic Technologies Corporation, Gaithersburg, MD) and a plastic microtiter dish cover. DNA was isolated from each well using the 96-well Miniprep Kit protocol of Advanced Genetic Technologies Corporation (Gaithersburg, MD) as modified by Utterback *et al.* (1995, *Genome Sci. Technol.* 1: 1-8).

Example 4: *Aspergillus niger* Directional cDNA Library Construction

Total cellular RNA was extracted from the *Aspergillus niger* mycelial samples described in Example 1 using a QiaEasy RNA maxi kit (QIAGEN, Valencia, CA) with the following modification. The extract was sheared by passage up and down in a 16-gauge needle three times before the addition of the 70% ethanol step. PolyA⁺ RNA was isolated using a Qiagen Oligotex kit following the instructions provided by the manufacturer (QIAGEN, Valencia, CA).

Double-stranded cDNA was synthesized from 5 µg of *Aspergillus oryzae* A1560 poly(A)⁺ RNA by the RNase H method (Gubler and Hoffman 1983, *Gene* 25: 263-269; Sambrook *et al.*, 1989, *Molecular Cloning: A Laboratory Manual*, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York) using a hair-pin modification. The poly(A)⁺ RNA (5 µg in 5 µl of 0.1% diethylpyrocarbonate-treated water) was heated at 70°C for 8 minutes in a pre-siliconized, RNase-free Eppendorf tube, quenched on ice, and combined in a final volume of 50 µl with reverse transcriptase buffer (50 mM Tris-Cl pH 8.3, 75 mM KCl, 3 mM MgCl₂, 10 mM DTT) containing 1 mM of dATP, dGTP and dTTP, and 0.5 mM of 5-methyl-dCTP (Pharmacia, Uppsala, Sweden), 40 units of human placental ribonuclease inhibitor (Promega, Madison, WI), 4.81 µg of oligo(dT)₁₈-NotI primer (Pharmacia, Uppsala, Sweden) and 1000 units of SuperScript II RNase H⁻ reverse transcriptase (Life Technologies, Gaithersburg, MD).

First-strand cDNA was synthesized by incubating the reaction mixture at 45°C for 1

hour. After synthesis, the mRNA:cDNA hybrid mixture was gel filtrated through a MicroSpin S-400 HR (Pharmacia, Uppsala, Sweden) spin column according to the manufacturer's instructions.

After gel filtration, the hybrids were diluted in 250 µl of second strand buffer (20 mM Tris-Cl pH 7.4, 90 mM KCl, 4.6 mM MgCl₂, 10 mM (NH₄)₂SO₄, 0.16 mM βNAD⁺) containing 200 µM of each dNTP, 60 units of *E. coli* DNA polymerase I (Pharmacia, Uppsala, Sweden), 5.25 units of RNase H (Promega, Madison, WI), and 15 units of *E. coli* DNA ligase (Boehringer Mannheim, Indianapolis, IN). Second strand cDNA synthesis was performed by incubating the reaction tube at 16°C for 2 hours, and an additional 15 minutes at 25°C. The reaction was stopped by addition of EDTA to 20 mM final concentration followed by phenol and chloroform extractions.

The double-stranded cDNA was purified using a QiaQuick PCR spin column according to the manufacturer's instructions (QIAGEN, Valencia, CA), washed in 70% ethanol, dried (SpeedVac), and resuspended in 30 µl of Mung bean nuclease buffer (30 mM sodium acetate pH 4.6, 300 mM NaCl, 1 mM ZnSO₄, 0.35 mM dithiothreitol, 2% glycerol) containing 25 units of Mung bean nuclease (Pharmacia, Uppsala, Sweden). The single-stranded hair-pin DNA was clipped by incubating the reaction at 30°C for 30 minutes, followed by addition of 70 µl of 10 mM Tris-Cl, pH 7.5, 1 mM EDTA, phenol extraction, and ethanol precipitation with 2 volumes of 96% ethanol and 0.1 volume 3 M sodium acetate pH 5.2 on ice for 30 minutes.

After treatment of the cDNA with mung bean nuclease, the cDNA was cut with the restriction endonuclease *NotI*. The cDNA was ligated into a pZERo2 vector (Invitrogen, Carlsbad, CA) that had been previously cut with restriction endonucleases *EcoRV* and *NotI*. The ligation mixture was used to transform by electroporation *E. coli* strain DH10B (Life Technologies, Gaithersburg, MD) to generate approximately 4.5 million kanamycin resistant transformants. The transformants were plated onto 2YT agar plates containing 50 µg/ml kanamycin. The colonies were harvested and DNA was isolated using Qiagen Maxi kits (QIAGEN, Valencia, CA) and the instructions supplied by the manufacturer.

An aliquot of the *Aspergillus niger* DNA preparation was cut with restriction endonuclease *NotI* and run on an agarose gel. Based upon the migration of standard DNA markers, a band containing DNA from molecular size approximately 3.8 kb to 6.1 kb was excised from the gel and purified with a QiaExII purification kit (QIAGEN, Valencia, CA).

The cDNA was ligated with T4 DNA polymerase using standard conditions, and used to transform *E. coli* strain DH10B to kanamycin resistance by electroporation to generate colonies for sequence analysis.

5 **Example 5: *Aspergillus niger* EST Template Preparation**

cDNA was isolated from individual kanamycin resistant colonies using a Qiagen 96-well manifold plasmid preparation system (QIAGEN, Valencia, CA) and the instructions supplied by the manufacturer.

10 **Example 6: *Aspergillus oryzae* Directional cDNA Library Construction**

Total RNA was prepared from the *Aspergillus oryzae* mycelial samples described in Example 1 by extraction with guanidinium thiocyanate followed by ultracentrifugation through a 5.7 M CsCl cushion (Chirgwin *et al.*, 1979, *Biochemistry* 18: 5294-5299) using the following modifications. The frozen mycelia were ground in liquid N₂ to a fine powder with
15 a mortar and a pestle, followed by grinding in a precooled coffee mill, and immediately suspended in 5 volumes of RNA extraction buffer (4 M guanidinium thiocyanate, 0.5% sodium laurylsarcosine, 25 mM sodium citrate pH 7.0, 0.1 M β -mercaptoethanol). The mixture was stirred for 30 minutes at room temperature and centrifuged (20 minutes at 10 000 rpm, Beckman) to pellet the cell debris. The supernatant was collected, carefully layered onto
20 a 5.7 M CsCl cushion (5.7 M CsCl, 10 mM EDTA, pH 7.5, 0.1% DEPC; autoclaved prior to use) using 26.5 ml supernatant per 12.0 ml of CsCl cushion, and centrifuged to obtain the total RNA (Beckman, SW 28 rotor, 25 000 rpm, room temperature, 24 hours). After centrifugation the supernatant was carefully removed and the bottom of the tube containing the RNA pellet was cut off and rinsed with 70% ethanol. The total RNA pellet was
25 transferred to an Eppendorf tube, suspended in 500 μ l of TE, pH 7.6 (if difficult, heat occasionally for 5 minutes at 65°C), phenol extracted, and precipitated with ethanol for 12 hours at -20°C (2.5 volumes of ethanol, 0.1 volume of 3M sodium acetate pH 5.2). The RNA was collected by centrifugation, washed in 70% ethanol, and resuspended in a minimum volume of DEPC. The RNA concentration was determined by measuring OD₂₆₀₋₂₈₀.

30 The poly(A)⁺ RNA was isolated by oligo(dT)-cellulose affinity chromatography (Aviv & Leder, 1972, *Proceedings of the National Academy of Sciences USA* 69: 1408-1412). A total of 0.2 g of oligo(dT) cellulose (Boehringer Mannheim, Indianapolis, IN) was preswollen

in 10 ml of 1x of column loading buffer (20 mM Tris-Cl, pH 7.6, 0.5 M NaCl, 1 mM EDTA, 0.1% SDS), loaded onto a DEPC-treated, plugged plastic column (Poly Prep Chromatography Column, BioRad, Hercules, CA), and equilibrated with 20 ml of 1x loading buffer. The total RNA (1-2 mg) was heated at 65°C for 8 minutes, quenched on ice for 5 minutes, and after
5 addition of 1 volume of 2x column loading buffer to the RNA sample loaded onto the column. The eluate was collected and reloaded 2-3 times by heating the sample as above and quenching on ice prior to each loading. The oligo(dT) column was washed with 10 volumes of 1x loading buffer, then with 3 volumes of medium salt buffer (20 mM Tris-Cl, pH 7.6, 0.1 M NaCl, 1 mM EDTA, 0.1% SDS), followed by elution of the poly(A)⁺ RNA with 3 volumes
10 of elution buffer (10 mM Tris-Cl, pH 7.6, 1 mM EDTA, 0.05% SDS) preheated to 65°C, by collecting 500 µl fractions. The OD₂₆₀ was read for each collected fraction, and the mRNA containing fractions were pooled and ethanol precipitated at -20°C for 12 hours. The poly(A)⁺ RNA was collected by centrifugation, resuspended in DEPC-DIW and stored in 5-10 µg aliquots at -80°C.

15 Double-stranded cDNA was synthesized from 5 µg of *Aspergillus oryzae* A1560 poly(A)⁺ RNA by the RNase H method (Gubler and Hoffman 1983, *supra*; Sambrook *et al.*, 1989, *supra*) using a hair-pin modification. The poly(A)⁺ RNA (5 µg in 5 µl of DEPC-treated water) was heated at 70°C for 8 minutes in a pre-siliconized, RNase-free Eppendorf tube, quenched on ice, and combined in a final volume of 50 µl with reverse transcriptase buffer
20 (50 mM Tris-Cl pH 8.3, 75 mM KCl, 3 mM MgCl₂, 10 mM DTT) containing 1 mM of dATP, dGTP and dTTP, and 0.5 mM of 5-methyl-dCTP, 40 units of human placental ribonuclease inhibitor, 4.81 µg of oligo(dT)₁₈-NotI primer and 1000 units of SuperScript II RNase H - reverse transcriptase.

25 First-strand cDNA was synthesized by incubating the reaction mixture at 45°C for 1 hour. After synthesis, the mRNA:cDNA hybrid mixture was gel filtrated through a Pharmacia MicroSpin S-400 HR spin column according to the manufacturer's instructions.

After the gel filtration, the hybrids were diluted in 250 µl of second strand buffer (20 mM Tris-Cl pH 7.4, 90 mM KCl, 4.6 mM MgCl₂, 10 mM (NH₄)₂SO₄, 0.16 mM βNAD⁺) containing 200 µM of each dNTP, 60 units of *E. coli* DNA polymerase I (Pharmacia, Uppsala, Sweden), 5.25 units of RNase H, and 15 units of *E. coli* DNA ligase. Second strand
30 cDNA synthesis was performed by incubating the reaction tube at 16°C for 2 hours, and an additional 15 minutes at 25°C. The reaction was stopped by addition of EDTA to 20 mM

final concentration followed by phenol and chloroform extractions.

The double-stranded cDNA was ethanol precipitated at -20°C for 12 hours by addition of 2 volumes of 96% ethanol and 0.2 volume of 10 M ammonium acetate, recovered by centrifugation, washed in 70% ethanol, dried (SpeedVac), and resuspended in 30 µl of Mung bean nuclease buffer (30 mM sodium acetate pH 4.6, 300 mM NaCl, 1 mM ZnSO₄, 0.35 mM dithiothreitol, 2% glycerol) containing 25 units of Mung bean nuclease. The single-stranded hair-pin DNA was clipped by incubating the reaction at 30°C for 30 minutes, followed by addition of 70 µl of 10 mM Tris-Cl, pH 7.5, 1 mM EDTA, phenol extraction, and ethanol precipitation with 2 volumes of 96% ethanol and 0.1 volume 3 M sodium acetate pH 5.2 on ice for 30 minutes.

The double-stranded cDNAs were recovered by centrifugation (20,000 rpm, 30 minutes), and blunt-ended with T4 DNA polymerase in 30 µl of T4 DNA polymerase buffer (20 mM Tris-acetate, pH 7.9, 10 mM magnesium acetate, 50 mM potassium acetate, 1 mM dithiothreitol) containing 0.5 mM of each dNTP, and 5 units of T4 DNA polymerase by incubating the reaction mixture at +16°C for 1 hour. The reaction was stopped by addition of EDTA to 20 mM final concentration, followed by phenol and chloroform extractions and ethanol precipitation for 12 h at -20°C by adding 2 volumes of 96% ethanol and 0.1 volume of 3M sodium acetate pH 5.2.

After the fill-in reaction the cDNAs were recovered by centrifugation as above, washed in 70% ethanol, and the DNA pellet was dried in a SpeedVac. The cDNA pellet was resuspended in 25 µl of ligation buffer (30 mM Tris-Cl, pH 7.8, 10 mM MgCl₂, 10 mM dithiothreitol, 0.5 mM ATP) containing 2 µg *EcoRI* adaptors (0.2µg/µl, Pharmacia, Uppsala, Sweden) and 20 units of T4 ligase by incubating the reaction mix at 16°C for 12 hours. The reaction was stopped by heating at 65°C for 20 minutes, and then placed on ice for 5 minutes. The adapted cDNA was digested with *NotI* by addition of 20 µl autoclaved water, 5 µl of 10x *NotI* restriction enzyme buffer and 50 units of *NotI*, followed by incubation for 3 hours at 37°C. The reaction was stopped by heating the sample at 65 °C for 15 minutes. The cDNAs were size-fractionated by agarose gel electrophoresis on a 0.8% SeaPlaque GTG low melting temperature agarose gel (FMC, Rockland, ME) in 1x TBE (in autoclaved water) to separate unligated adaptors and small cDNAs. The gel was run for 12 hours at 15 V, and the cDNA was size-selected with a cut-off at 0.7 kb by cutting out the lower part of the agarose gel. Then a 1.5% agarose gel was poured in front of the cDNA-containing gel, and the double-

stranded cDNAs were concentrated by running the gel backwards until it appeared as a compressed band on the gel. The cDNA-containing gel piece was cut out from the gel and the cDNA was extracted from the gel using the GFX gel band purification kit (Amersham, Arlington Heights, IL) as follows. The trimmed gel slice was weighed in a 2 ml Biopure
5 Eppendorf tube, then 10 ml of Capture Buffer was added for each 10 mg of gel slice, the gel slice was dissolved by incubation at 60°C for 10 minutes, until the agarose was completely solubilized, the sample at the bottom of the tube by brief centrifugation. The melted sample was transferred to the GFX spin column placed in a collection tube, incubated at 25°C for 1 minute, and then spun at full speed in a microcentrifuge for 30 seconds. The flow-through was
10 discarded, and the column was washed with 500 µl of wash buffer, followed by centrifugation at full speed for 30 seconds. The collection tube was discarded, and the column was placed in a 1.5 ml Eppendorf tube, followed by elution of the cDNA by addition of 50 µl of TE pH 7.5 to the center of the column, incubation at 25°C for 1 minute, and finally by centrifugation for 1 minute at maximum speed. The eluted cDNA was stored at -20°C until library
15 construction.

A plasmid DNA preparation for a *EcoRI-NotI* insert-containing pYES2.0 cDNA clone, was purified using a QIAGEN Tip-100 according to the manufacturer's instructions (QIAGEN, Valencia, CA). A total of 10 µg of purified plasmid DNA was digested to completion with *NotI* and *EcoRI* in a total volume of 60 µl by addition of 6 µl of 10x
20 NEBuffer for *EcoRI* (New England Biolabs, Beverly, MA), 40 units of *NotI*, and 20 units of *EcoRI* followed by incubation for 6 hours at 37°C. The reaction was stopped by heating the sample at 65°C for 20 minutes. The digested plasmid DNA was extracted once with phenol-chloroform, then with chloroform, followed by ethanol precipitation for 12 hours at -20°C by adding 2 volumes of 96% ethanol and 0.1 volume of 3 M sodium acetate pH 5.2. The
25 precipitated DNA was resuspended in 25 µl of 1x TE pH 7.5, loaded on a 0.8% SeaKem agarose gel in 1x TBE, and run on the gel for 3 hours at 60 V. The digested vector was cut out from the gel, and the DNA was extracted from the gel using the GFX gel band purification kit (Amersham-Pharmacia Biotech, Uppsala, Sweden) according to the manufacturer's instructions. After measuring the DNA concentration by OD_{260/280}, the eluted
30 vector was stored at -20°C until library construction.

To establish the optimal ligation conditions for the cDNA library, four test ligations were carried out in 10 µl of ligation buffer (30 mM Tris-Cl pH 7.8, 10 mM MgCl₂, 10 mM

DTT, 0.5 mM ATP) containing 7 µl of double-stranded cDNA, (corresponding to approximately 1/10 of the total volume in the cDNA sample), 2 units of T4 ligase, and 25 ng, 50 ng and 75 ng of *EcoRI-NotI* cleaved pYES2.0 vector, respectively (Invitrogen). The vector background control ligation reaction contained 75 ng of *EcoRI-NotI* cleaved pYES.0 vector without cDNA. The ligation reactions were performed by incubation at 16°C for 12 hours, heated at 65°C for 20 minutes, and then 10 µl of autoclaved water was added to each tube. One µl of the ligation mixtures was electroporated (200 W, 2.5 kV, 25 mF) to 40 µl electrocompetent *E. coli* DH10B cells (Life Technologies, Gaithersburg, MD). After addition of 1 ml SOC to each transformation mix, the cells were grown at 37°C for 1 hour. 50 µl and 5 µl from each electroporation were plated on LB plates supplemented with ampicillin at 100 µg per ml and grown at 37°C for 12 hours. Using the optimal conditions, 18 *Aspergillus oryzae* A1560 cDNA libraries containing 1-2.5x10⁷ independent colony forming units was established in *E. coli*, with a vector background of ca. 1%. The cDNA library was stored as (1) individual pools (25,000 c.f.u./pool) in 20% glycerol at -80°C; (2) cell pellets of the same pools at -20°C; (3) Qiagen purified plasmid DNA from individual pools at -20°C (Qiagen Tip 100); and (4) directional, double-stranded cDNA at -20°C.

Example 7: *Aspergillus oryzae* EST Template Preparation

From each cDNA library described in Example 6, transformant colonies were picked directly from the transformation plates into 96-well microtiter dishes (QIAGEN, GmbH, Hilden Germany) which contained 200 µl TB broth (Life Technologies, Frederick Maryland) with 100 µg ampicillin per ml. The plates were incubated 24 hours with agitation (300 rpm) on a rotary shaker. To prevent spilling and cross-contamination, and to allow sufficient aeration, the plates were covered with a microporous tape sheet AirPoreTM (QIAGEN GmbH, Hilden Germany).

cDNA was isolated from each well using the QIAprep 96 Turbo kit (QIAGEN GmbH, Hilden Germany).

Example 8: *Trichoderma reesei* Directional cDNA Library Construction

Total RNA was prepared from the *Trichoderma reesei* mycelial samples described in Example 1 by extraction with guanidinium thiocyanate followed by ultracentrifugation through a 5.7 M CsCl cushion (Chirgwin *et al.*, 1979, *Biochemistry* 18: 5294-5299) as

described in Example 6. The total RNA concentration was determined by measuring OD_{260/280}.

The poly(A)⁺ RNA was isolated by oligo(dT)-cellulose affinity chromatography (Aviv & Leder, 1972, *Proceedings of the National Academy of Sciences USA* 69: 1408-1412) as described in example 6. Double-stranded *EcoRI-NotI*-directional cDNA was synthesized from 5 µg of *Trichoderma reesei* RutC-30 poly(A)⁺ RNA by the method described in example 6. The cDNAs were size-fractionated by agarose gel electrophoresis on a 0.8% SeaPlaque GTG low melting temperature agarose gel (FMC, Rockland, ME) in 1X TBE (in autoclaved water) to separate unligated adaptors and small cDNAs. The gel was run for 12 hours at 15 V, and the cDNA was size-selected with a cut-off at 0.7 kb by cutting out the lower part of the agarose gel. The cDNAs were recovered from the agarose gel as described in Example 6, and ligated into *EcoRI-NotI* cleaved pYES2.0 vector, using the optimal ligation conditions described in Example 6, resulting in a cDNA library comprising ca. 1 x 10⁷ independent colony forming units was established in *E. coli*, with a vector background of 1%. The cDNA library was stored as (1) individual pools (25,000 c.f.u./pool) in 20% glycerol at -80°C; (2) cell pellets of the same pools at -20°C; (3) Qiagen purified plasmid DNA from individual pools at -20°C (Qiagen Tip 100); and (4) directional, double-stranded cDNA at -20°C.

Example 9: *Trichoderma reesei* EST Template Preparation

cDNA was isolated from individual *Trichoderma reesei* colonies using a Qiagen 96-well manifold plasmid preparation system (QIAGEN, Valencia, CA) and the instructions supplied by the manufacturer.

Example 10: DNA Sequencing and Analysis of Nucleotide Sequence Data of the *Fusarium venenatum* EST Library

Single-pass DNA sequencing was conducted with a Perkin-Elmer Applied Biosystems Model 377 XL Automatic DNA Sequencer (Perkin-Elmer Applied Biosystems, Inc., Foster City, CA) using dye-terminator chemistry (Giesecke *et al.*, 1992, *Journal of Virology Methods* 38: 47-60) and the reverse lac sequencing primer.

Nucleotide sequence data were scrutinized for quality, and samples giving improper spacing or ambiguity levels exceeding 2% were discarded or re-run. Vector sequences were

trimmed manually with assistance of FACTURA™ software (Perkin-Elmer Applied Biosystems, Inc., Foster City, CA). In addition, sequences were truncated at the end of each sample when the number of ambiguous base calls increased. All sequences were compared to each other to construct overlapping contigs using AutoAssembler™ software (Perkin-Elmer
5 Applied Biosystems, Inc., Foster City, CA). The contigs were subsequently used in combination with TIGR Assembler software (Sutton *et al.*, 1995, *Genome Science and Technology* 1: 9019) to determine multiplicity of various cDNA species represented in each library. Lastly, all sequences were translated in three frames and searched against a non-redundant data base (NRDB) using GeneAssist™ software (Perkin-Elmer Applied
10 Biosystems, Inc., Foster City, CA) with a modified Smith-Waterman algorithm using the BLOSUM 62 matrix with a threshold score of 70. The NRDB was assembled from Genpept, Swiss-Prot, and PIR databases.

The *Fusarium venenatum* EST sequences are designated SEQ ID NOs. 1–3770. An "N" in a nucleic acid sequence means that the nucleotide is an A, C, G, or T.

Example 11: DNA Sequencing and Analysis of Nucleotide Sequence Data of the *Aspergillus niger* EST Library

DNA sequencing was performed as described in Example 10. Following DNA sequencing, the generation of individual EST sequence files was performed by removal of
20 flanking vector and polyA sequences, removal of sequences with a high percentage of ambiguous base calls, and removal of all sequences less than 100 processed nucleotides in length. Contiguous EST sequences were identified using the TIGR Assembler software (Sutton *et al.*, 1995, *supra*).

The *Aspergillus niger* EST sequences are designated SEQ ID NOs. 3771–4376. An
25 "N" in a nucleic acid sequence means that the nucleotide is an A, C, G, or T.

Example 12: DNA Sequencing and Analysis of Nucleotide Sequence Data of the *Aspergillus oryzae* EST Library

Single-pass DNA sequencing of the *Aspergillus oryzae* ESTs was conducted with a
30 Perkin-Elmer Applied Biosystems Model 377 XL Automatic DNA Sequencer (Perkin-Elmer Applied Biosystems, Inc., Foster City, CA) using dye-terminator chemistry (Giesecke *et al.*, 1992, *Journal of Virology Methods* 38: 47-60) and a pYES specific primer (Invitrogen.

Carlsbad, CA). Vector sequences were removed with the crossmatch program from the Phred/Phrap package (Ewing and Green, 1998, *Genome Research* 8: 186-194). The sequences were assembled with Phrap also from the Phred/Phrap package. The assembled sequences were searched with fastx3 (Pearson and Lipman, 1988, *Proceedings of the National Academy of Science USA* 85: 2444-2448; Pearson, 1990, *Methods in Enzymology* 183: 63-98) against a customized database consisting of protein sequences from SWISSPROT, SWISSPROTNEW, TREMBL, TREMBLNEW, REMTREMBL, PDB and GeneSeqP. The matrix used was BL50.

The *Aspergillus oryzae* EST sequences are designated SEQ ID NOs. 4377-7401. An "N" in a nucleic acid sequence means that the nucleotide is an A, C, G, or T.

Example 13: DNA Sequencing and Analysis of Nucleotide Sequence Data of the *Trichoderma reesei* EST Library

Single-pass DNA sequencing of the *Trichoderma reesei* ESTs was conducted with a Perkin-Elmer Applied Biosystems Model 377 XL Automatic DNA Sequencer (Perkin-Elmer Applied Biosystems, Inc., Foster City, CA) using dye-terminator chemistry (Giesecke *et al.*, 1992, *Journal of Virology Methods* 38: 47-60) and a pYES specific primer (Invitrogen, Carlsbad, CA). Vector sequence and low quality 3' sequence were removed with the pregap program from the Staden package (MRC, Cambridge, England). The sequences were assembled with Cap2 (Huang, 1996, *Genomics* 33: 21-31). The assembled sequences were searched with fastx3 (see Pearson and Lipman, 1988, *Proceedings of the National Academy of Science USA* 85: 2444-2448; Pearson, 1990, *Methods in Enzymology* 183: 63-98) against a customized database consisting of protein sequences from SWISSPROT, SWISSPROTNEW, TREMBL, TREMBLNEW, REMTREMBL, PDB and GeneSeqP. The matrix used was BL50.

The *Trichoderma reesei* EST sequences are designated SEQ ID NOs. 7402-7860. An "N" in a nucleic acid sequence means that the nucleotide is an A, C, G, or T.

Example 14: Compilation of *Fusarium venenatum*, *Aspergillus niger*, *Aspergillus oryzae*, and *Trichoderma reesei* ESTs

Tables 1-4 summarize the open reading frames (ORFs) in the *Fusarium venenatum*, *Aspergillus oryzae*, *Aspergillus oryzae*, and *Trichoderma reesei* EST sequences of the invention.

The EST's were annotated by searching the databases as specified in Example 12.

- 5 The description field from the database hit was assigned to a given EST if the z-score exceeded 200.

Functional categorization was done by use of the COG database (Tatusov *et al. Science* 1997 Oct 24; 278). This database contains 21 complete genomes: Each gene in the database is placed into one of the following categories: Translation, ribosomal structure and
10 biogenesis; transcription; DNA replication, recombination and repair; cell division and chromosome partitioning; posttranslational modification, protein turnover, chaperones; cell envelope biogenesis, outer membrane; cell motility and secretion; inorganic ion transport and metabolism; signal transduction mechanisms; energy production and conversion; carbohydrate transport and metabolism; amino acid transport and metabolism; nucleotide
15 transport and metabolism; coenzyme metabolism; lipid metabolism; general function prediction only; and function unknown. The EST's were searched against the COG database with fastx3 and a functional category was assigned to a sequence if a match was found with a z-score higher than 400.

The sequences were furthermore categorized into enzyme families. Examples of such
20 classification are CAZy (Coutinho, P.M. & Henrissat, B., 1999, Carbohydrate-active enzymes: an integrated database approach, In *Recent Advances in Carbohydrate Bioengineering*, H.J. Gilbert, G. Davies, B. Henrissat and B. Svensson, eds., The Royal Society of Chemistry, Cambridge, *in press*) and (Coutinho, P.M. & Henrissat, B. (1999) The modular structure of cellulases and other carbohydrate-active enzymes: an integrated database
25 approach, In "*Genetics, Biochemistry and Ecology of Cellulose Degradation*", K. Ohmiya, K. Hayashi, K. Sakka, Y. Kobayashi, S. Karita and T. Kimura eds., Uni Publishers Co., Tokyo, pp. 15-23) accessible from. Coutinho, P.M. & Henrissat, B. (1999); Carbohydrate-Active Enzymes server at URL: <http://afmb.cnrs-mrs.fr/~pedro/CAZY/db.html>. At this site classifications into (a) Glycosidases and Transglycosidases (or Glycoside Hydrolases), (b)
30 Glycosyltransferases, and (c) Polysaccharide Lyases and Carbohydrate Esterases are available.

Similarly, classifications of peptidases are available at the MEROPS database at <http://www.bi.bbsrc.ac.uk/Merops/Merops.htm>. This classification is essentially as identified by Rawlings and Barrett (Rawlings N.D., Barrett A.J., 1993, Evolutionary families of peptidases. *Biochemical Journal* 290: 205-218; Rawlings N.D., Barrett A.J., 1994, Families of serine peptidases. *Methods of Enzymology* 244: 19-61; Rawlings N.D., Barrett A.J., 1994, Families of cysteine peptidases. *Methods of Enzymology* 244: 461-486; Rawlings N.D., Barrett A.J., 1995, Families of aspartic peptidases and those of unknown catalytic mechanism, *Methods of Enzymology* 248: 105-120; and Rawlings N.D., Barrett A.J., 1995, Evolutionary families of metallopeptidases, *Methods of Enzymology* 248: 183-228.

Other classifications of lipases and oxidoreductase families were constructed in a similar manner, where structurally related enzymes were separated into distinct categories.

The EST sequences of the invention were compared by means of computer algorithms for homologies to the content of individual families. All sequences from a given family were used individually as a query to search a database of EST sequences of the invention using a number of different homology search algorithms like FASTA and BLAST (W. R. Pearson, 1990, Rapid and Sensitive Sequence Comparison with FASTP and FASTA, *Methods in Enzymology* 183: 63-98; and Altschul, Stephen F., Warren Gish, Webb Miller, Eugene W. Myers, and David J. Lipman, 1990, Basic local alignment search tool, *Journal of Molecular Biology* 215: 403-10). A distinct hit to a sequence of a given family predicted the particular EST sequence to encode a protein of that family. Using this method, part of the EST sequences listed in the table were shown to belong to distinct enzyme families.

Table 1. *Fusarium venenatum* ESTs

Sequence Listing	zscore	Annotation	Database	Functional category
1	2667.2	Talaromyces emersonii glucoamylase	geneseqp Y23339	ND
2	4203.8	ELONGATION FACTOR 2 (EF-2).	swissprot P32324	ND
3	3198.0	ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P23704	ND
4	1956.9	AMMONIUM TRANSPORTER MEPA	sptrembl q9y877	Inorganic ion transport and metabolism
6	2960.4	ELONGATION FACTOR 1-ALPHA (EF-1-ALPHA).	swissprot P34825	ND
7	2917.2	ABC1 TRANSPORTER.	sptrembl O13407	ND
8	2791.3	GAMMA-ACTIN.	tremblnew AAF00008	ND

9	2703.6	TUBULIN BETA CHAIN.	swissprot P53374	ND
12	2561.0	CITRATE SYNTHASE, MITOCHONDRIAL PRECURSOR (EC 4.1.3.7).	swissprot P34085	ND
13	2554.9	60S RIBOSOMAL PROTEIN L3.	tremblnew AAF15600	ND
14	2522.1	<i>Microscilla furvescens</i> catalase-53CA1.	geneseqp W33810	Inorganic ion transport and metabolism
15	2436.2	<i>Cladosporium herbarum</i> allergen Clah53.	geneseqp R71891	Energy production and conversion
16	2350.6	THIAZOLE BIOSYNTHETIC ENZYME PRECURSOR (STRESS-INDUCIBLE PROTEIN STI35).	swissprot P23618	ND
17	2331.8	SUBTILISIN-LIKE PROTEASE PR1H.	tremblnew CAB63907	Posttranslational modification, protein turnover, chaperones
18	2293.3	ALPHA-TUBULIN.	tremblnew CAA74848	ND
21	2165.4	GUANINE NUCLEOTIDE- BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN (CROSS- PATHWAY CONTROL WD-REPEAT PROTEIN CPC-2).	swissprot Q01369	ND
22	2148.3	AMINO-ACID PERMEASE INDA1.	swissprot P34054	ND
24	2125.9	NMT1 PROTEIN HOMOLOG.	swissprot P42882	Inorganic ion transport and metabolism
25	2090.9	PUTATIVE MULTICOPPER OXIDASE YFL041W PRECURSOR (EC 1.-.-.-).	swissprot P43561	ND
26	2082.1	PLASMA MEMBRANE ATPASE (EC 3.6.1.35) (PROTON PUMP).	swissprot Q07421	Inorganic ion transport and metabolism
27	2071.7	PLASMA MEMBRANE ATPASE (EC 3.6.1.35) (PROTON PUMP).	swissprot Q07421	ND
28	2039.0	ADP,ATP CARRIER PROTEIN (ADP/ATP TRANSLOCASE) (ADENINE NUCLEOTIDE TRANSLOCATOR) (ANT).	swissprot P02723	ND
29	2026.4	ATP SYNTHASE ALPHA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P37211	ND
30	2025.5	HEAT SHOCK 70 KD PROTEIN.	swissprot Q05944	Posttranslational modification, protein turnover, chaperones
31	1960.7	<i>T. harzianum</i> exochitinase.	geneseqp W01639	ND

32	1916.8	PUTATIVE DIHYDROXY-ACID DEHYDRATASE, MITOCHONDRIAL PRECURSOR (EC 4.2.1.9) (DAD) (2,3-DIHYDROXY ACID HYDROLYASE).	swissprot Q10318	ND
33	1905.0	CUTINASE TRANSCRIPTION FACTOR 1 ALPHA.	swissprot P52958	ND
34	1903.2	EUKARYOTIC INITIATION FACTOR 4A-LIKE PROTEIN C1F5.10.	swissprot Q10055	ND
35	1894.8	NADH DEHYDROGENASE SUBUNIT.	sptrembl Q01388	ND
36	1869.1	TRANSLATION RELEASE FACTOR ERF3.	sptrembl O42787	Amino acid transport and metabolism
37	1868.4	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE (EC 1.2.1.12) (GAPDH).	swissprot P35143	ND
38	1852.7	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A (EC 3.6.1.34) (V-ATPASE 67 KD SUBUNIT).	swissprot P11592	ND
39	1838.0	PEROXISOMAL HYDRATASE-DEHYDROGENASE-EPIMERASE (HDE) (MULTIFUNCTIONAL BETA-OXIDATION PROTEIN) (MFP) [INCLUDES: 2-ENOYL-COA HYDRATASE (EC 4.2.1.-); D-3-HYDROXYACYL COA DEHYDROGENASE (EC 1.1.1.-)].	swissnew Q01373	ND
42	1816.8	N. crassa glucoamylase.	geneseq R71034	ND
43	1798.7	XANTHINE DEHYDROGENASE (EC 1.1.1.204) (PURINE HYDROXYLASE I).	swissprot Q12553	ND
44	1769.7	78 KD GLUCOSE-REGULATED PROTEIN HOMOLOG PRECURSOR (GRP 78) (IMMUNOGLOBULIN HEAVY CHAIN BINDING PROTEIN HOMOLOG) (BIP).	swissnew P78695	ND
45	1769.5	RIBONUCLEOSIDE-DIPHOSPHATE REDUCTASE M2 CHAIN (EC 1.17.4.1) (RIBONUCLEOTIDE REDUCTASE).	swissprot P31350	Nucleotide transport
47	1740.5	6-PHOSPHOGLUCONATE DEHYDROGENASE, DECARBOXYLATING 1 (EC	swissprot P38720	ND

		1.1.1.44).		
48	1711.5	SERINE/THREONINE PROTEIN PHOSPHATASE PP2A CATALYTIC SUBUNIT (EC 3.1.3.16).	swissprot P48580	ND
49	1701.5	GEL1 PROTEIN.	sptrembl O74687	ND
50	1691.1	PUTATIVE LYSYL-TRNA SYNTHETASE.	tremblnew CAB52801	ND
51	1671.7	SIMILAR TO GLUTAMATE DECARBOXYLASE.	sptrembl Q05567	ND
52	1634.0	GLYCOGEN SYNTHASE.	sptrembl O93869	Cell envelope biogenesis, outer membrane
53	1630.0	CHROMOSOME XVI READING FRAME ORF YPL235W	sptrembl Q12464	DNA replication, recombination and repair
54	1626.3	TRANSALDOLASE (EC 2.2.1.2).	sptrembl O42700	Carbohydrate transport and metabolism
56	1614.8	KETOL-ACID REDUCTOISOMERASE PRECURSOR (EC 1.1.1.86) (ACETOHYDROXY-ACID REDUCTOISOMERASE) (ALPHA-KETO-BETA- HYDROXYLACIL REDUCTOISOMERASE).	swissnew P38674	Amino acid transport and metabolism
57	1609.5	GLUTAMATE SYNTHASE [NADH] PRECURSOR (EC 1.4.1.14) (NADH-GOGAT).	swissnew Q03460	ND
58	1600.3	DICARBOXYLIC AMINO ACID PERMEASE.	swissprot P53388	ND
59	1599.3	Yeast ribosomal protein S7.	geneseqp W36115	ND
60	1579.6	SODIUM TRANSPORT ATPASE FST.	sptrembl Q00877	ND
61	1577.3	SIMILAR TO ASPARTATE AMINOTRANSFERASE.	sptrembl Q17994	Amino acid transport and metabolism
63	1562.2	EUKARYOTIC INITIATION FACTOR 4A (EIF-4A).	swissprot P47943	ND
65	1552.1	SUCCINATE DEHYDROGENASE [UBIQUINONE] IRON- SULFUR PROTEIN, MITOCHONDRIAL PRECURSOR (EC 1.3.5.1) (IP).	swissnew O42772	ND
67	1546.9	ACTIN-LIKE PROTEIN 3.	swissprot P78712	Cell division and chromosome partitioning
68	1538.6	HYPOTHETICAL 44.3 KD PROTEIN C27E2.03C IN CHROMOSOME I.	sptrembl O13998	ND
69	1529.6	BETA-GLUCOSIDASE 1 PRECURSOR (EC 3.2.1.21)	swissprot P48825	ND

		(GENTIOBIASE) (CELLOBIASE) (BETA-D- GLUCOSIDE GLUCOHYDROLASE).		
70	1528.3	GLUCOSE-6-PHOSPHATE ISOMERASE (GPI) (EC 5.3.1.9) (PHOSPHOGLUCOSE ISOMERASE) (PGI) (PHOSPHOHEXOSE ISOMERASE) (PHI).	swissprot P12709	Carbohydrate transport and metabolism
71	1527.0	2-OXOGLUTARATE DEHYDROGENASE E1 COMPONENT, MITOCHONDRIAL PRECURSOR (EC 1.2.4.2) (ALPHA-KETOGLUTARATE DEHYDROGENASE).	swissprot P20967	ND
72	1505.5	PROTEIN DISULPHIDE ISOMERASE PRECURSOR.	sptrembl O74568	ND
74	1497.5	NADH-UBIQUINONE OXIDOREDUCTASE 51 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-51KD) (CI- 51KD).	swissprot P24917	Energy production and conversion
75	1483.5	HYPOTHETICAL 26.6 KD PROTEIN IN THYA-COTC INTERGENIC REGION.	swissprot O31803	ND
76	1466.7	60S RIBOSOMAL PROTEIN L2 (YL6) (L5) (RP8).	swissprot P05736	ND
77	1464.3	BETA ADAPTIN - LIKE PROTEIN.	sptrembl O81742	ND
78	1461.9	60S RIBOSOMAL PROTEIN L5.	swissprot O59953	ND
79	1457.7	GTP-BINDING NUCLEAR PROTEIN GSP2/CNR2.	swissprot P32836	ND
80	1454.0	3-KETOACYL-COA THIOLASE, PEROXISOMAL PRECURSOR (EC 2.3.1.16) (BETA- KETOTHIOLASE) (ACETYL-COA ACYLTRANSFERASE) (PEROXISOMAL 3- OXOACYL- COA THIOLASE).	swissprot Q05493	ND
81	1442.5	ELONGATION FACTOR 3 (FRAGMENT).	sptrembl O94226	ND
82	1435.1	60S RIBOSOMAL PROTEIN L1-B (L10A).	swissprot O74836	ND
83	1432.7	HEAT SHOCK PROTEIN 70.	sptrembl O42808	ND
84	1427.4	TRANSCRIPTIONAL ACTIVATOR PROTEIN ACU- 15.	swissprot P87000	ND
85	1423.2	INORGANIC PYROPHOSPHATASE (EC 3.6.1.1) (PYROPHOSPHATE PHOSPHO- HYDROLASE)	swissprot O13505	Energy production and conversion

		(PPASE).		
86	1419.8	MITOCHONDRIAL ATP-DEPENDENT PROTEASE PRECURSOR (EC 3.4.21.-).	swissprot P36775	Posttranslational modification, protein turnover, chaperones
87	1408.4	60S RIBOSOMAL PROTEIN L10.	tremblnew CAA22664	ND
88	1405.9	CHITINASE.	sptrembl Q92222	ND
89	1399.7	HISTIDINE KINASE (FRAGMENT).	tremblnew AAD40816	Signal transduction mechanisms
90	1389.9	CUTINASE G-BOX BINDING PROTEIN.	sptrembl Q00878	ND
91	1388.1	FLAVOHEMOGLOBIN.	sptrembl O74183	ND
92	1384.8	ACTIN-LIKE PROTEIN.	tremblnew CAB52711	Cell division and chromosome partitioning
93	1383.3	Trichoderma reesei ACEI transcriptional activator protein.	geneseqp W58572	ND
94	1375.8	40S RIBOSOMAL PROTEIN S3AE (S1).	swissprot P40910	ND
95	1370.2	GLUCOSAMINE-6-PHOSPHATE ISOMERASE (EC 5.3.1.10) (GLUCOSAMINE-6-PHOSPHATE DEAMINASE) (GNPDA) (GLCN6P DEAMINASE) (OSCILLIN) (K1AA0060).	swissprot P46926	Carbohydrate transport and metabolism
96	1365.9	14-3-3.	tremblnew BAA89421	ND
97	1360.4	C-1-TETRAHYDROFOLATE SYNTHASE.	sptrembl O42992	ND
98	1353.6	PYRABCN (EC 6.3.5.5).	sptrembl O93937	Nucleotide transport
99	1350.8	ASPARAGINE SYNTHETASE.	sptrembl O42902	ND
100	1349.2	UBIQUITIN--PROTEIN LIGASE RSP5 (EC 6.3.2.-).	swissprot P39940	ND
101	1346.1	ELONGATION FACTOR 3 (EF-3).	swissprot P25997	ND
102	1338.9	ENOLASE (EC 4.2.1.11).	tremblnew BAA23760	ND
103	1334.9	GTP-BINDING PROTEIN YPT1.	swissprot P33723	ND
104	1331.5	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl O59761	Energy production and conversion
105	1328.2	CYCLOPHILIN, MITOCHONDRIAL FORM PRECURSOR (EC 5.2.1.8).	sptrembl Q99009	ND
107	1314.0	40S RIBOSOMAL PROTEIN S6.	swissprot P05752	ND
108	1310.8	26S PROTEASE REGULATORY SUBUNIT 7 HOMOLOG (CIM5 PROTEIN)	swissprot P33299	Posttranslational modification, protein turnover,

		(TAT-BINDING HOMOLOG 3).		chaperones
109	1309.4	ACETYL-COA HYDROLASE (EC 3.1.2.1) (ACETYL-COA DEACYLASE) (ACETYL-COA ACYLASE) (ACETATE UTILIZATION PROTEIN).	swissprot P15937	ND
110	1309.1	60S ACIDIC RIBOSOMAL PROTEIN P0 (L10E).	swissprot P05317	ND
111	1308.8	CCAAT-BINDING TRANSCRIPTION FACTOR SUBUNIT AAB-1.	sptrembl O13381	ND
113	1291.3	ADP-RIBOSYLATION FACTOR.	swissprot P34727	ND
114	1290.9	MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR (EC 1.1.1.37).	swissprot P17505	ND
116	1289.4	HOMOCITRATE SYNTHASE (EC 4.1.3.21).	sptrembl O94225	ND
117	1285.6	FIMBRIN.	sptrembl O93981	ND
118	1284.9	EUKARYOTIC TRANSLATION INITIATION FACTOR 6 (EIF-6).	swissprot Q12522	ND
119	1283.8	Malassezia fungus MF-5 antigenic protein.	geneseqp W29772	ND
120	1282.5	HOMEODOMAIN DNA-BINDING TRANSCRIPTION FACTOR.	sptrembl O74252	ND
121	1281.8	CARNITINE ACETYL TRANSFERASE FACC.	sptrembl O13363	ND
122	1281.4	UBIQUITIN-CONJUGATING ENZYME E2-16 KD (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN) (COLLETOTRICHUM HARD-SURFACE- INDUCED PROTEIN 1).	sptrembl O74196	ND
123	1278.4	FLAVOHEMOGLOBIN.	sptrembl O74183	ND
124	1275.7	MUS38.	sptrembl O74126	DNA replication, recombination and repair
125	1274.0	An enzyme with sugar transferase activity.	geneseqp W88044	ND
126	1270.2	TUBULIN ALPHA-A CHAIN.	swissprot P38668	ND
128	1266.0	40S RIBOSOMAL PROTEIN S9 (S7).	swissprot P52810	ND
129	1244.7	RAS-RELATED PROTEIN RAB-11B (ORA3).	swissprot P22129	ND
130	1241.0	PUTATIVE SODIUM P-TYPE ATPASE (FRAGMENT)	tremblnew CAB65298	ND
131	1237.4	HYDROXYMETHYLGLUTARYL-COA SYNTHASE (EC	swissprot P54874	ND

		4.1.3.5) (HMG-COA SYNTHASE) (3-HYDROXY-3-METHYLGLUTARYL COENZYME A SYNTHASE).		
132	1232.2	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A (EC 3.6.1.34) (V-ATPASE 67 KD SUBUNIT).	swissprot P11592	Energy production and conversion
133	1231.7	SQUALENE SYNTHASE.	sptrembl Q9Y753	ND
134	1230.8	ADENOSYLHOMOCYSTEINASE (EC 3.3.1.1) (S-ADENOSYL-L-HOMOCYSTEINE HYDROLASE) (ADOHCYASE).	swissprot P39954	ND
135	1224.8	PYRUVATE CARBOXYLASE.	sptrembl O93918	Amino acid transport and metabolism
136	1217.4	AMINONITROPHENYL PROPANEDIOL RESISTANCE PROTEIN.	swissprot P32629	ND
137	1213.0	HYPOTHETICAL 161.2 KD PROTEIN IN NMD5-HOM6 INTERGENIC REGION.	swissprot P47169	ND
138	1211.4	DIPHTHINE SYNTHASE (EC 2.1.1.98) (DIPHTAMIDE BIOSYNTHESIS METHYLTRANSFERASE).	swissprot P32469	Translation, ribosomal structure and biogenesis
139	1211.2	60S RIBOSOMAL PROTEIN L15.	swissprot O13418	ND
140	1211.1	ENOLASE (EC 4.2.1.11) (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D- GLYCERATE HYDRO-LYASE) (ALLERGEN CLA H 6) (CLA H VI).	swissprot P42040	Carbohydrate transport and metabolism
141	1210.2	26S PROTEASOME REGULATORY COMPLEX SUBUNIT P42D.	tremblnew AAF08391	Posttranslational modification, protein turnover, chaperones
142	1208.8	NADH-UBIQUINONE OXIDOREDUCTASE 23 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-23KD) (CI-23KD).	swissprot Q12644	ND
143	1208.5	HEAT SHOCK PROTEIN 90 HOMOLOG (SUPPRESSOR OF VEGETATIVE INCOMPATIBILITY MOD-E).	swissprot O43109	Posttranslational modification, protein turnover, chaperones
144	1208.2	ATP-DEPENDENT BILE ACID PERMEASE.	swissprot P32386	ND
145	1206.4	14-3-3 PROTEIN HOMOLOG (TH1433).	swissprot Q99002	ND
146	1206.4	AMINOTRANSFERASE 412	pdb 1YAA	ND

		aa, chain A+B+C+D		
147	1205.0	40S RIBOSOMAL PROTEIN S0 (RIBOSOME-ASSOCIATED PROTEIN 1).	swissprot Q01291	Translation, ribosomal structure and biogenesis
148	1200.1	ARGINASE (EC 3.5.3.1).	swissprot P33280	ND
149	1197.8	RAS-RELATED C3 BOTULINUM TOXIN SUBSTRATE 1 (P21-RAC1) (RAS-LIKE PROTEIN TC25).	swissprot P15154	ND
150	1196.8	ATP SYNTHASE ALPHA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P37211	Energy production and conversion
151	1195.9	MITOCHONDRIAL PROCESSING PEPTIDASE BETA SUBUNIT PRECURSOR (EC 3.4.24.64) (BETA-MPP) (UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX CORE PROTEIN 1) (EC 1.10.2.2).	swissprot P11913	ND
152	1194.5	POLYUBIQUITIN.	sptrembl O74274	ND
153	1190.6	FARNESYL PYROPHOSPHATE SYNTHETASE (FPP SYNTHETASE) (FPS) (FARNESYL DIPHOSPHATE SYNTHETASE) [INCLUDES: DIMETHYLALLYLTRANSFERASE (EC 2.5.1.1); GERANYLTRANSFERASE (EC 2.5.1.10)].	swissprot Q92235	Coenzyme metabolism
154	1188.3	ALCOHOL DEHYDROGENASE I (EC 1.1.1.1).	swissprot P41747	ND
155	1185.7	ISOCITRATE DEHYDROGENASE [NADP]. MITOCHONDRIAL PRECURSOR (EC 1.1.1.42) (OXALOSUCCINATE DECARBOXYLASE) (IDH) (NADP+-SPECIFIC ICDH) (IDP).	swissprot P79089	Energy production and conversion
156	1184.8	GLUCOSE-6-PHOSPHATE 1-DEHYDROGENASE (EC 1.1.1.49) (G6PD).	swissprot P41764	Carbohydrate transport and metabolism
157	1184.7	A. nidulans atrC polypeptide.	geneseqp Y21815	ND
158	1183.3	CALCINEURIN B SUBUNIT (PROTEIN PHOSPHATASE 2B REGULATORY SUBUNIT) (CALCINEURIN REGULATORY SUBUNIT).	swissprot P87072	ND
159	1175.6	ALPHA-GLUCOSIDASE (EC 3.2.1.20) (MALTASE).	swissprot Q02751	Carbohydrate transport and metabolism
160	1170.2	RHO1 PROTEIN.	swissprot Q09914	ND

161	1166.6	HNRNP ARGININE N-METHYLTRANSFERASE (EC 2.1.1.-) (ODP1 PROTEIN).	swissprot P38074	ND
162	1160.6	VACUOLAR PROTEASE A PRECURSOR (EC 3.4.23.-).	swissprot Q01294	ND
163	1160.4	PLASMA MEMBRANE ATPASE (EC 3.6.1.35) (PROTON PUMP).	swissprot P07038	ND
164	1156.7	ISOCITRATE DEHYDROGENASE [NADP], MITOCHONDRIAL PRECURSOR (EC 1.1.1.42) (OXALOSUCCINATE DECARBOXYLASE) (IDH) (NADP+-SPECIFIC ICDH) (IDP).	swissprot P79089	Energy production and conversion
165	1150.9	40S RIBOSOMAL PROTEIN S2 (S4) (YS5) (RP12) (OMNIPOTENT SUPPRESSOR PROTEIN SUP44).	swissprot P25443	ND
166	1149.4	CRO1 PROTEIN.	sptrembl O42829	ND
167	1147.5	RIBOSOMAL PROTEIN L13A.	tremblnew AAD54383	ND
168	1143.0	MITOCHONDRIAL PHOSPHATE CARRIER PROTEIN (PHOSPHATE TRANSPORT PROTEIN) (PTP) (MITOCHONDRIAL IMPORT RECEPTOR) (P32).	swissprot P23641	ND
170	1136.4	LONG-CHAIN-FATTY-ACID--COA LIGASE 2 (EC 6.2.1.3) (LONG-CHAIN ACYL-COA SYNTHETASE 2) (FATTY ACID ACTIVATOR 2).	swissprot P39518	Lipid metabolism
171	1136.2	B. bassiana POPS reductase protein.	geneseq Y33673	Inorganic ion transport and metabolism
173	1135.0	CPC3 PROTEIN.	sptrembl O74297	ND
174	1131.1	LINOLEATE DIOL SYNTHASE PRECURSOR.	tremblnew AAD49559	ND
175	1129.3	HYPOTHETICAL 68.3 KD PROTEIN.	sptrembl Q03195	ND
176	1127.7	ISOCITRATE LYASE (EC 4.1.3.1) (ISOCITRASE) (ISOCITRATASE) (ICL).	swissprot P28299	Energy production and conversion
177	1125.6	PUTATIVE CASEIN KINASE II CATALYTIC SUBUNIT.	sptrembl O64816	Signal transduction mechanisms
178	1124.8	PUTATIVE PHOSPHATIDYLINOSITOL-KINASE (FRAGMENT).	sptrembl Q9Y7K2	ND
179	1119.1	PHOSPHOGLYCERATE KINASE (EC 2.7.2.3).	swissprot P24590	ND
180	1118.8	NADH-UBIQUINONE OXIDOREDUCTASE 20.8 KD SUBUNIT (EC 1.6.5.3) (EC	swissprot P21976	ND

		1.6.99.3).		
181	1117.8	PROTEIN PHOSPHOTASE 2A 65KD REGULATORY SUBUNIT (A SUBUNIT).	sptrembl Q10293	ND
182	1117.6	Peptide transport protein ATPTR2Ap.	geneseqp R84891	ND
183	1115.8	FREQUENCY CLOCK PROTEIN.	swissnew Q00586	ND
184	1114.9	60S RIBOSOMAL PROTEIN L11 (L16) (YL16) (39A) (RP39).	swissprot P06380	ND
185	1109.0	S. brevicaulis beta-fructofuranosidase protein sequence.	geneseqp Y05278	ND
186	1104.2	UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX CORE PROTEIN 2 PRECURSOR (EC 1.10.2.2).	swissprot O60044	ND
187	1101.6	NAD-SPECIFIC GLUTAMATE DEHYDROGENASE (EC 1.4.1.2) (NAD-GDH) (FRAGMENTS).	swissprot P00365	Amino acid transport and metabolism
188	1100.9	PUTATIVE MITOCHONDRIAL CARRIER PROTEIN YHM1/SHM1.	swissprot P38988	ND
189	1096.7	CYCLOPHILIN (EC 5.2.1.8).	sptrembl O93826	ND
190	1096.0	THIOREDOXIN REDUCTASE (EC 1.6.4.5).	swissprot P51978	ND
191	1092.3	40S RIBOSOMAL PROTEIN S5 (FRAGMENT).	sptrembl O65731	ND
192	1091.5	HEAT SHOCK PROTEIN 90 HOMOLOG (SUPPRESSOR OF VEGETATIVE INCOMPATIBILITY MOD-E).	swissprot O43109	Posttranslational modification, protein turnover, chaperones
193	1090.3	40S RIBOSOMAL PROTEIN S15 (S12).	swissprot P34737	Translation, ribosomal structure and biogenesis
194	1085.4	MALATE SYNTHASE, GLYOXYSOMAL (EC 4.1.3.2).	swissnew P28344	ND
195	1085.1	N. crassa mtr gene product.	geneseqp R79909	ND
196	1081.1	60S RIBOSOMAL PROTEIN L8 (L7A) (L4).	swissprot O13672	ND
197	1080.8	MITOGEN-ACTIVATED PROTEIN KINASE KINASE CPK1.	sptrembl O93876	Signal transduction mechanisms
198	1080.3	CORONIN-LIKE PROTEIN.	swissprot O13923	ND
199	1078.7	PROBABLE ATP-DEPENDENT RNA HELICASE HAS1	swissprot Q03532	DNA replication, recombination and repair
200	1078.1	UBI1.	tremblnew AAF24230	ND

201	1077.3	60S RIBOSOMAL PROTEIN L7-C.	swissprot O60143	ND
202	1076.8	40S RIBOSOMAL PROTEIN S7.	swissprot O43105	ND
203	1076.3	CHROMOSOME XII COSMID 9470.	sptrembl Q06287	ND
204	1072.5	SERINE/THREONINE PROTEIN KINASE FSK (FRAGMENT).	sptrembl Q00875	Signal transduction mechanisms
205	1066.5	RIBOSOMAL PROTEIN S28.	tremblnew CAB56815	ND
206	1064.5	STRESS-RESPONSIVE GENE PRODUCT.	tremblnew BAA85305	ND
208	1063.3	TOM70 GENE.	sptrembl O13499	ND
209	1056.9	TUBULIN BETA CHAIN.	swissprot O42786	ND
210	1056.2	NADP-SPECIFIC GLUTAMATE DEHYDROGENASE (EC 1.4.1.4) (NADP-GDH).	swissprot P00369	ND
211	1056.0	PHOSPHORIBOSYLAMIDOI MIDAZOLE-SUCCINOCARBOXAMIDE SYNTHASE, SAICAR SYNTHETASE.	tremblnew CAB52612	Nucleotide transport
212	1054.7	ADENYLATE KINASE CYTOSOLIC (EC 2.7.4.3) (ATP-AMP TRANSPHOSPHORYLASE).	swissprot P07170	Nucleotide transport
213	1051.1	LPG22P.	sptrembl Q02908	Transcription
214	1046.3	ADENOSINE-5'PHOSPHOSULFATE KINASE (EC 2.7.1.25) (ADENYLYLSULFATE KINASE) (APS KINASE).	sptrembl Q12657	ND
215	1045.7	HYPOTHETICAL 34.2 KD PROTEIN IN CUS1-RPL20A INTERGENIC REGION.	swissprot Q04013	ND
216	1045.0	RAS-RELATED PROTEIN RAB6.	tremblnew AAD25535	ND
217	1044.8	40S RIBOSOMAL PROTEIN S17 (CRP3).	swissprot P27770	ND
218	1039.9	CLATHRIN HEAVY CHAIN.	swissprot P22137	ND
219	1039.8	KINESIN.	sptrembl P78718	ND
220	1038.9	VACUOLAR ASPARTIC PROTEASE PRECURSOR.	sptrembl O42630	ND
221	1036.7	TUBULIN ALPHA-A CHAIN.	swissprot P38668	ND
222	1035.8	PROBABLE GYP7 PROTEIN (FRAGMENT).	swissprot P09379	ND
223	1035.7	PEROXISOMAL HYDRATASE-DEHYDROGENASE-EPIMERASE (HDE) (MULTIFUNCTIONAL BETA-OXIDATION PROTEIN) (MFP) [INCLUDES: 2-ENOYL-COA	swissnew Q01373	ND

		HYDRATASE (EC 4.2.1.-); D-3-HYDROXYACYL COA DEHYDROGENASE (EC 1.1.1.-)].		
224	1035.5	SEPTIN HOMOLOG SPN2.	tremblnew CAB57440	ND
225	1032.1	MYO-INOSITOL 1-PHOSPHATE SYNTHASE (EC 5.5.1.4).	sptrembl O65196	Lipid metabolism
226	1031.5	GAMMA-ACTIN.	tremblnew AAF00008	Cell division and chromosome partitioning
227	1031.2	PHOSPHO-2-DEHYDRO-3-DEOXYHEPTONATE ALDOLASE, TYROSINE-INHIBITED (EC 4.1.2.15) (PHOSPHO-2-KETO-3-DEOXYHEPTONATE ALDOLASE) (DAHP SYNTHETASE) (3-DEOXY-D-ARABINO-HEPTULOSONATE 7-PHOSPHATE SYNTHASE).	swissprot P32449	Amino acid transport and metabolism
228	1026.8	PUTATIVE CALCIUM P-TYPE ATPASE (FRAGMENT).	tremblnew CAB65295	Inorganic ion transport and metabolism
229	1026.3	60S RIBOSOMAL PROTEIN L2.	sptrembl O94253	ND
230	1026.2	CU-ZN SUPEROXIDE DISMUTASE.	sptrembl O94178	ND
231	1024.2	CARBOXY-CIS,CIS-MUCONATE CYCLASE (EC 5.5.1.5) (3-CARBOXY-CIS,CIS-MUCONATE LACTONIZING ENZYME) (CMLE).	swissprot P38677	ND
232	1020.5	PRP12P/SAP130.	tremblnew BAA86918	ND
233	1020.1	26S PROTEASE REGULATORY SUBUNIT 6B HOMOLOG.	swissprot P78578	Posttranslational modification, protein turnover, chaperones
234	1019.3	NADH-UBIQUINONE OXIDOREDUCTASE 40 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-40KD) (CI-40KD).	swissprot P25284	ND
235	1017.4	GLUCOSE-6-PHOSPHATE 1-DEHYDROGENASE (EC 1.1.1.49) (G6PD).	swissprot P48826	Carbohydrate transport and metabolism
236	1012.5	HEXOKINASE (EC 2.7.1.1).	sptrembl O93964	ND
237	1008.0	60S RIBOSOMAL PROTEIN L12.	swissprot P23358	ND
238	1007.8	POP3, A WD REPEAT PROTEIN.	tremblnew CAB57925	ND
239	1007.4	14-3-3 PROTEIN HOMOLOG	swissprot Q99002	ND

		(TH1433).		
240	1007.4	TRICHODIENE SYNTHASE (EC 4.1.99.6) (SESQUITERPENE CYCLASE) (TS).	swissprot P27679	ND
241	1004.9	PUTATIVE PROTEOSOME COMPONENT C6G10.04C (EC 3.4.99.46) (MACROPAIN SUBUNIT C6G10.04C) (PROTEINASE YSCE SUBUNIT C6G10.04C) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT C6G10.04C).	sptrembl O14250	ND
242	1001.3	YME1 PROTEIN (EC 3.4.24.-) (TAT-BINDING HOMOLOG 11) (OSD1 PROTEIN).	swissprot P32795	Posttranslational modification, protein turnover, chaperones
243	1000.7	SERINE/THREONINE PROTEIN KINASE.	sptrembl Q99012	Signal transduction mechanisms
244	996.2	INTRACELLULAR METALLOPROTEINASE MEPB.	sptrembl P97996	Amino acid transport and metabolism
245	995.1	NADH-UBIQUINONE OXIDOREDUCTASE 30.4 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-30KD) (CI-31KD).	swissprot P23710	ND
246	990.8	GENERAL AMINO-ACID PERMEASE GAPI.	swissprot P19145	Amino acid transport and metabolism
247	986.5	SULPHUR METABOLITE REPRESSION REGULATION PROTEIN SCONCP.	sptrembl Q92229	ND
248	985.2	DOLICHOL-PHOSPHATE MANNOSYLTRANSFERASE (EC 2.4.1.83) (DOLICHOL-PHOSPHATE MANNOSE SYNTHASE) (DOLICHYL-PHOSPHATE BETA-D-MANNOSYLTRANSFERASE).	sptrembl O14466	Cell envelope biogenesis, outer membrane
250	983.7	ARI PROTEIN.	sptrembl Q94981	ND
253	979.4	40S RIBOSOMAL PROTEIN S13 (S15).	swissprot P33192	ND
254	979.4	PROBABLE SUCCINYL-COA LIGASE [GDP-FORMING] ALPHA-CHAIN, MITOCHONDRIAL PRECURSOR (EC 6.2.1.4) (SUCCINYL-COA SYNTHETASE, ALPHA CHAIN) (SCS- ALPHA).	swissprot O13750	ND
255	976.7	40S RIBOSOMAL PROTEIN	swissprot P27073	ND

		S19 (S16).		
256	976.2	40S RIBOSOMAL PROTEIN S14 (CRP2).	swissprot P19115	ND
257	975.8	SUPEROXIDE DISMUTASE PRECURSOR (EC 1.15.1.1).	sptrembl Q9Y783	ND
258	974.3	40S RIBOSOMAL PROTEIN S8 (S14) (YS9) (RP19).	swissprot P05754	ND
259	972.5	Cystathionine gamma lyase.	geneseqp R66223	Amino acid transport and metabolism
260	966.7	AMINO-ACID PERMEASE IND1.	swissprot P34054	Amino acid transport and metabolism
261	965.2	78 KD GLUCOSE-REGULATED PROTEIN HOMOLOG PRECURSOR (GRP 78) (IMMUNOGLOBULIN HEAVY CHAIN BINDING PROTEIN HOMOLOG) (BIP).	swissnew P78695	Posttranslational modification, protein turnover, chaperones
262	965.1	PHOSPHOGLUCOMUTASE.	sptrembl O74374	ND
263	964.1	CALMODULIN.	sptrembl O93930	ND
264	962.0	EUKARYOTIC TRANSLATION INITIATION FACTOR 2 ALPHA SUBUNIT (EIF-2- ALPHA).	swissprot P20459	Translation, ribosomal structure and biogenesis
265	961.7	S-ADENOSYLMETHIONINE SYNTHETASE (EC 2.5.1.6) (METHIONINE ADENOSYLTRANSFERASE) (ADOMET SYNTHETASE).	swissprot P48466	ND
266	960.7	PROBABLE UTP--GLUCOSE-1-PHOSPHATE URIDYLTRANSFERASE.	tremblnew CAA22857	ND
267	959.5	PRPD PROTEIN.	swissprot P77243	ND
268	957.8	TRANSMEMBRANE PROTEIN.	tremblnew CAB65007	ND
269	955.2	HYPOTHETICAL 63.5 KD PROTEIN.	sptrembl O74965	ND
270	954.6	Aspergillus niger trehalose synthase.	geneseqp W49027	Carbohydrate transport and metabolism
271	954.6	SERINE/THREONINE-PROTEIN KINASE STE20 (EC 2.7.1.-).	swissnew Q03497	Signal transduction mechanisms
272	952.4	HYPOTHETICAL 55.8 KD PROTEIN.	tremblnew CAB63552	ND
273	949.3	40S RIBOSOMAL PROTEIN S11 (S18) (YS12) (RP41).	swissprot P26781	ND
274	949.1	HYPOTHETICAL 44.3 KD PROTEIN C1F7.07C IN CHROMOSOME I.	swissprot Q09919	Inorganic ion transport and metabolism
275	947.0	60S RIBOSOMAL PROTEIN L27A (L29).	swissprot P78987	Translation, ribosomal structure and biogenesis

276	946.1	OXIDOREDUCTASE (H2O2(A)) 293 aa	pdb 2CYP	ND
277	944.5	HYPOTHETICAL 22.1 KD PROTEIN IN CCP1-MET1 INTERGENIC REGION.	swissprot P36149	ND
278	944.4	PROTEASOME SUBUNIT YC7-ALPHA.	tremblnew CAA40292	ND
279	943.8	SERINE/THREONINE PROTEIN KINASE.	sptrembl O42795	Signal transduction mechanisms
280	942.9	CYTOCHROME C1, HEME PROTEIN PRECURSOR.	swissprot P07142	ND
281	942.6	Yeast ribosomal protein S7.	geneseq W36115	Translation, ribosomal structure and biogenesis
282	938.9	FIMBRIN.	sptrembl O93981	ND
283	934.4	PUTATIVE CHOLINEPHOSPHATE CYTIDYLYLTRANSFERASE.	tremblnew CAA19310	ND
284	930.5	40S RIBOSOMAL PROTEIN S12.	sptrembl O59936	ND
285	929.6	REHYDRIN-LIKE PROTEIN.	sptrembl O94014	Posttranslational modification, protein turnover, chaperones
286	928.1	PROTEASOME COMPONENT PRE3 PRECURSOR (EC 3.4.99.46) (MACROPAIN SUBUNIT PRE3) (PROTEINASE YSCE SUBUNIT PRE3) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT PRE3).	swissnew P38624	Posttranslational modification, protein turnover, chaperones
287	927.7	CARBOXYPEPTIDASE CPDS PRECURSOR (EC 3.4.16.-).	swissprot P52719	ND
288	927.2	PROBABLE PHOSPHATIDYLINOSITOL- 4-PHOSPHATE 5-KINASE FAB1 (EC 2.7.1.68) (1- PHOSPHATIDYLINOSITOL- 4-PHOSPHATE KINASE) (PIP5K) (PTDINS(4)P-5- KINASE) (DIPHOSPHOINOSITIDE KINASE).	swissprot P34756	ND
289	926.2	40S RIBOSOMAL PROTEIN S18.	swissprot P35271	ND
290	925.6	GLUTATHIONE- DEPENDENT FORMALDEHYDE DEHYDROGENASE (EC 1.2.1.1) (FDH) (FALDH).	swissprot Q06099	ND
291	925.2	PROTEIN PHOSPHATASE 2A DELTA (B")	sptrembl O00494	ND

		REGULATORY SUBUNIT, DELTA3 ISOFORM (B").		
292	924.5	MANNOSE-1-PHOSPHATE GUANYLTRANSFERASE (EC 2.7.7.13) (MPG1 TRANSFERASE) (ATP- MANNOSE-1-PHOSPHATE GUANYLYLTRANSFERASE)	sptrembl O74624	Cell envelope biogenesis, outer membrane
293	924.2	HYPOTHETICAL 39.3 KD PROTEIN C31G5.04 IN CHROMOSOME I.	sptrembl O14104	Amino acid transport and metabolism
294	921.8	60S RIBOSOMAL PROTEIN L20 (L18A).	swissprot P47913	ND
295	917.7	BETAINE ALDEHYDE DEHYDROGENASE (EC 1.2.1.8) (BADH).	swissprot P17445	Energy production and conversion
296	917.3	V-TYPE ATPASE SUBUNIT C'.	sptrembl Q9Y874	Energy production and conversion
297	916.8	60S RIBOSOMAL PROTEIN L23 (L17).	swissprot P04451	ND
298	915.2	Amino acid sequence of a maltogenic alpha amylase.	geneseq Y30621	ND
299	914.1	PUTATIVE 20KDA SUBUNIT OF THE V- ATPASE.	sptrembl P87252	ND
300	914.0	OUTER MITOCHONDRIAL MEMBRANE PROTEIN PORIN.	swissprot P07144	ND
301	913.0	UTP-AMMONIA LIGASE.	sptrembl O74638	Nucleotide transport
302	912.2	CYCLIN-DEPENDENT PROTEIN KINASE.	sptrembl Q9Y8B7	Signal transduction mechanisms
303	910.8	HYPOTHETICAL 57.0 KD TRP-ASP REPEATS CONTAINING PROTEIN IN CPR4-SSK22 INTERGENIC REGION.	swissprot P25382	ND
304	907.8	VACUOLAR ATP SYNTHASE 16 KD PROTEOLIPID SUBUNIT (EC 3.6.1.34).	swissprot P31413	Energy production and conversion
305	907.4	40S RIBOSOMAL PROTEIN S26E (CRP5) (13.6 KD RIBOSOMAL PROTEIN).	swissprot P21772	ND
306	907.4	PUTATIVE 30.7 KD METHYLTRANSFERASE IN TSM1-ARE1 INTERGENIC REGION.	swissprot P25627	ND
307	906.5	PEROXISOMAL HYDRATASE- DEHYDROGENASE- EPIMERASE (HDE) (MULTIFUNCTIONAL BETA-OXIDATION	swissnew Q01373	ND

		PROTEIN) (MFP) [INCLUDES. 2-ENOYL-COA HYDRATASE (EC 4.2.1.-); D- 3-HYDROXYACYL COA DEHYDROGENASE (EC 1.1.1.-)].		
308	905.6	HISTONE H2A.	swissprot P08844	ND
309	905.0	PUTATIVE SEC14 CYTOSOLIC FACTOR (PHOSPHATIDYLINOSITOL/ PHOSPHATIDYL- CHOLINE TRANSFER PROTEIN) (PI/PC TP).	swissprot Q10137	ND
310	903.7	PUTATIVE UBIQUITIN FUSION DEGRADATION PROTEIN (FRAGMENT).	tremblnew CAA22594	ND
311	902.0	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew CAB54867	Translation, ribosomal structure and biogenesis
312	901.5	FK506-BINDING PROTEIN PRECURSOR (FKBP-21) (PEPTIDYL-PROLYL CIS- TRANS ISOMERASE) (PPIASE) (EC 5.2.1.8).	swissprot O60046	Posttranslational modification, protein turnover, chaperones
313	901.0	PUTATIVE COATOMER BETA SUBUNIT (FRAGMENT).	sptrembl O74812	ND
314	900.5	Human aflatoxin B1 aldehyde reductase.	geneseqp Y24920	ND
316	898.6	HISTIDYL-TRNA SYNTHETASE.	sptrembl O43011	Translation, ribosomal structure and biogenesis
317	897.7	CHITIN SYNTHASE 3 (EC 2.4.1.16) (CHITIN-UDP ACETYL-GLUCOSAMINYL TRANSFERASE 3) (CLASS- III CHITIN SYNTHASE 3).	swissprot P29070	ND
318	894.2	PROBABLE T-COMPLEX PROTEIN 1, BETA SUBUNIT (TCP-1-BETA) (CCT-BETA).	swissprot Q10147	Posttranslational modification, protein turnover, chaperones
319	893.0	ISOCITRATE LYASE (EC 4.1.3.1) (ISOCITRASE) (ISOCITRATASE) (ICL).	swissprot P28299	Energy production and conversion
320	892.9	EIF-5A.	sptrembl O94083	ND
321	891.6	40S RIBOSOMAL PROTEIN S22 (S15A) (YS24).	swissprot P33953	ND
322	889.1	CUTINASE TRANSCRIPTION FACTOR 1 BETA.	swissprot P52959	ND
323	886.6	ORNITHINE CARBAMOYLTRANSFERAS E PRECURSOR (EC 2.1.3.3) (OTCASE) (ORNITHINE TRANSCARBAMYLASE).	swissprot P11803	Amino acid transport and metabolism

324	885.1	PUTATIVE ARP2/3 COMPLEX 41KD SUBUNIT.	tremblnew CAA70202	ND
325	885.0	LEUCYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.4) (LEUCINE--TRNA LIGASE) (LEURS).	swissprot P10857	ND
326	883.2	3-HYDROXY-3-METHYLGLUTARYL-COENZYME A REDUCTASE (EC 1.1.1.34) (HMG- COA REDUCTASE).	swissnew Q12577	ND
327	882.6	GLYCOSYLTRANSFERASE 858 aa, chain A+B	pdb 1YGP	Carbohydrate transport and metabolism
328	880.5	MINOR ALLERGEN ALT A 7 (ALT A VII).	swissprot P42058	ND
329	879.0	CARBON CATABOLITE REPRESSION REGULATOR.	sptrembl O94131	ND
330	876.4	PDI RELATED PROTEIN A.	sptrembl O93914	Energy production and conversion
331	874.2	ELONGATION FACTOR TU, MITOCHONDRIAL PRECURSOR.	swissprot P02992	Amino acid transport and metabolism
332	872.7	RAS-LIKE PROTEIN.	swissprot O42785	ND
333	870.4	SEVERIN KINASE.	sptrembl O61122	Signal transduction mechanisms
334	869.8	HYPOTHETICAL 65.3 KD PROTEIN IN MAD1-SCY1 INTERGENIC REGION.	swissprot P53154	Cell envelope biogenesis, outer membrane
335	868.3	T-COMPLEX PROTEIN 1, DELTA SUBUNIT (TCP-1-DELTA) (CCT-DELTA) (STIMULATOR OF TAR RNA BINDING).	swissprot P50991	Posttranslational modification, protein turnover, chaperones
336	867.2	HISTONE H3.	swissprot P07041	ND
337	865.7	UBIQUITIN-CONJUGATING ENZYME E2 (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN).	sptrembl O76069	ND
338	863.9	60S RIBOSOMAL PROTEIN L19 (L23) (YL14) (RP33) (RP15L).	swissprot P05735	Translation, ribosomal structure and biogenesis
339	863.3	MRNA CLEAVAGE FACTOR 1 25 KDA SUBUNIT.	sptrembl O43809	ND
340	862.1	PROTEIN PHOSPHATASE-1.	tremblnew AAD47567	ND
341	861.8	PROHIBITIN (FRAGMENT).	sptrembl O13357	Posttranslational modification, protein turnover, chaperones

342	861.0	40S RIBOSOMAL PROTEIN S3.	swissprot O60128	ND
343	860.4	MDM10 GENE.	sptrembl O13498	ND
344	859.6	PEPTIDYLPROLYL ISOMERASE (EC 5.2.1.8).	sptrembl O60045	ND
345	858.8	NUCLEAR MIGRATION PROTEIN NUDF.	swissprot Q00664	ND
347	855.8	SERINE/THREONINE PROTEIN KINASE SSK22 (EC 2.7.-.-).	swissprot P25390	Signal transduction mechanisms
348	853.1	PROTEIN PHOSPHATASE SSD1 HOMOLOG.	sptrembl O13327	ND
349	853.0	Fusarium 5-aminolevulinic acid synthase (hemA).	geneseqp Y17297	Coenzyme metabolism
350	852.7	GTP CYCLOHYDROLASE I (EC 3.5.4.16) (GTP-CH-I).	swissprot P51601	Coenzyme metabolism
351	851.7	POLYMERASE.	sptrembl Q10295	ND
352	851.5	PUTATIVE SPLICING FACTOR BBP/SF1.	tremblnew AAF02214	ND
353	850.4	60S RIBOSOMAL PROTEIN L18.	swissnew Q10192	Translation, ribosomal structure and biogenesis
354	850.1	PUTATIVE CHROMATIN BINDING SNW FAMILY NUCLEAR PROTEIN..	tremblnew CAB37421	ND
355	849.8	5-METHYLTETRAHYDROPTEROYLTRIGLUTAMATE--HOMOCYSTEIN METHYLTRANSFERASE(EC 2.1.1.14).	tremblnew CAB57427	Amino acid transport and metabolism
356	849.4	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl O74739	ND
357	848.6	ADENYLOSUCCINATE LYASE (EC 4.3.2.2).	sptrembl O75495	Nucleotide transport
358	846.7	PROBABLE SUCCINATE DEHYDROGENASE FLAVOPROTEIN SUBUNIT PRECURSOR(EC 1.3.5.1).	tremblnew CAB61213	Energy production and conversion
359	846.5	ACETYL-COA-ACETYLTRANSFERASE (EC 2.3.1.9).	sptrembl Q9Y838	Lipid metabolism
360	846.4	ABC TRANSPORTER CDR4.	swissprot O74676	ND
361	846.4	ACETYL-COA ACETYLTRANSFERASE IB (EC 2.3.1.9) (PEROXISOMAL ACETOACETYL-COA THIOLASE) (THIOLASE IB)	swissprot Q04677	ND
362	846.0	REPRESSIBLE ALKALINE PHOSPHATASE PRECURSOR (EC 3.1.3.1).	swissprot P11491	Inorganic ion transport and metabolism
363	845.2	NUCLEOSIDE DIPHOSPHATE KINASE..	tremblnew BAA83495	ND
364	844.7	PYRUVATE DEHYDROGENASE E1	swissprot Q09171	Energy production and

		COMPONENT BETA SUBUNIT, MITOCHONDRIAL PRECURSOR (EC 1.2.4.1) (PDHE1-B).		conversion
365	840.2	BETA-GLUCOSIDASE PRECURSOR (EC 3.2.1.21) (GENTOBIASE) (CELLOBIASE) (AMYGDALASE).	sptrembl Q12601	ND
366	839.4	PUTATIVE FAMILY-31 GLUCOSIDASE.	tremblnew CAB65603	Carbohydrate transport and metabolism
367	838.8	NONSENSE-MEDIATED MRNA DECAY PROTEIN 3.	swissprot P38861	Transcription
368	837.9	HEAT SHOCK PROTEIN SSC1, MITOCHONDRIAL PRECURSOR (ENDONUCLEASE SCE1 75 KD SUBUNIT).	swissprot P12398	Posttranslational modification, protein turnover, chaperones
369	837.0	GLUTAMATE SYNTHASE [NADPH] PRECURSOR (EC 1.4.1.13) (NADPH-GOGAT).	swissnew Q12680	ND
370	836.5	TRANSMEMBRANE TRANSPORTER LIZ1P.	sptrembl O43000	ND
371	836.2	FRUCTOSE-BISPHOSPHATE ALDOLASE (EC 4.1.2.13).	swissprot P36580	Carbohydrate transport and metabolism
372	835.8	TRICHODIENE OXYGENASE (EC 1.14.-.-) (CYTOCHROME P450 58).	swissprot Q12612	ND
373	834.7	HEXOKINASE (EC 2.7.1.1).	sptrembl O93964	ND
374	834.3	PROBABLE ACETYL-COA HYDROLASE.	tremblnew CAB52573	Energy production and conversion
375	833.0	HYPOTHETICAL 57.3 KD TRP-ASP REPEATS CONTAINING PROTEIN IN POM152- REC114 INTERGENIC REGION.	swissprot Q04225	ND
376	832.9	26S PROTEASE REGULATORY SUBUNIT 7 HOMOLOG.	tremblnew CAA16915	ND
377	831.6	GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT.	swissprot O14435	ND
378	831.5	SYMBIOSIS-RELATED PROTEIN.	swissprot P87068	ND
379	831.0	CHAPERONIN HSP78P.	sptrembl O74402	Posttranslational modification, protein turnover, chaperones
380	830.0	60S RIBOSOMAL PROTEIN L9-B (L8) (YL11) (RP25).	swissprot P51401	ND
381	829.2	CLATHRIN COAT ASSEMBLY PROTEIN.	sptrembl Q9Y7L6	ND

382	828.7	PROBABLE T-COMPLEX PROTEIN 1, ETA SUBUNIT (TCP-1-ETA) (CCT-ETA).	swissprot P87153	Posttranslational modification, protein turnover, chaperones
383	827.2	HYPOTHETICAL 49.6 KD PROTEIN IN ELM1-PRI2 INTERGENIC REGION.	swissprot P36091	ND
384	826.9	CLATHRIN COAT ASSEMBLY PROTEIN AP19 (CLATHRIN COAT ASSOCIATED PROTEIN AP19) (GOLGI ADAPTOR AP-1 19 KD ADAPTIN) (HA1 19 KD SUBUNIT) (CLATHRIN ASSEMBLY PROTEIN COMPLEX 1 SMALL CHAIN).	swissprot P56377	ND
385	826.6	NUCLEAR MOVEMENT PROTEIN NUDC.	swissprot P17624	ND
386	825.8	SERINE/THREONINE-PROTEIN KINASE NRC-2 (EC 2.7.1.-) (NONREPRESSIBLE CONIDIATION PROTEIN 2).	swissprot O42626	ND
387	824.9	PUTATIVE HOMOSERINE O-ACETYLTRANSFERASE.	sptrembl O13389	ND
388	824.3	SERINE PROTEASE PRECURSOR.	sptrembl O74236	Posttranslational modification, protein turnover, chaperones
389	823.9	EUKARYOTIC TRANSLATION INITIATION FACTOR 2 GAMMA SUBUNIT (EIF-2- GAMMA).	swissprot P32481	Amino acid transport and metabolism
390	823.1	PSU1.	tremblnew BAA83907	ND
391	822.5	GLUTAMIC ACID DECARBOXYLASE.	tremblnew BAA88152	Amino acid transport and metabolism
392	820.8	CHROMOSOME XV READING FRAME ORF YOR091W.	sptrembl Q12000	ND
393	820.2	HYPOTHETICAL 22.4 KD PROTEIN.	sptrembl O13610	ND
394	819.7	CYTOCHROME C549.	tremblnew BAA85768	ND
395	818.8	40S RIBOSOMAL PROTEIN S16 (RP61R).	swissprot P40213	ND
397	817.5	CALNEXIN (FRAGMENT).	sptrembl Q41798	ND
398	816.8	PROBABLE UTP--GLUCOSE-1-PHOSPHATE URIDYLYLTRANSFERASE (EC 2.7.7.9) (UDP-GLUCOSE PYROPHOSPHORYLASE) (UDPGP) (UGPASE) (FRAGMENT).	swissprot P78811	ND
399	814.6	BRANCHING ENZYME.	sptrembl	Carbohydrate

			Q9Y8H3	transport and metabolism
400	814.1	HEAT SHOCK PROTEIN SSC1, MITOCHONDRIAL PRECURSOR (ENDONUCLEASE SCE1 75 KD SUBUNIT).	swissprot P12398	Posttranslational modification, protein turnover, chaperones
401	813.9	BENZOATE 4-MONOOXYGENASE (EC 1.14.13.12) (BENZOATE-PARA-HYDROXYLASE) (CYTOCHROME P450 53).	swissnew P17549	ND
402	811.4	TRANSKETOLASE (EC 2.2.1.1) (TK).	swissprot Q12630	Carbohydrate transport and metabolism
403	811.2	PROBABLE SERINE/THREONINE-PROTEIN KINASE C1D4.11C (EC 2.7.1.-).	swissprot Q10156	ND
404	811.0	HAPC.	sptrembl O59848	DNA replication, recombination and repair
405	810.6	SULFITE OXIDASE PRECURSOR (EC 1.8.3.1).	swissprot Q07116	ND
406	809.6	BETA-ADAPTIN (PLASMA MEMBRANE ADAPTOR HA2/AP2 ADAPTIN BETA SUBUNIT) (CLATHRIN ASSEMBLY PROTEIN COMPLEX 2 BETA LARGE CHAIN) (AP105B).	swissprot P21851	ND
407	809.6	Murine RENT1 protein.	geneseqp W36509	DNA replication, recombination and repair
408	809.5	HYPOTHETICAL 69.9 KD PROTEIN IN MIC1-SRB5 INTERGENIC REGION.	swissprot P53261	ND
409	808.8	Ester hydrolase protein encoded by rec 511 gene.	geneseqp R44609	ND
410	807.7	PUTATIVE SACCHAROPINE DEHYDROGENASE.	sptrembl O59711	Amino acid transport and metabolism
411	807.2	PROTEIN TRANSPORT PROTEIN SEC13.	swissprot P53024	ND
412	807.0	HISTONE H4.	swissprot P04914	DNA replication, recombination and repair
413	806.7	RHO3 PROTEIN.	swissprot Q00245	ND
414	805.6	TRANSLATIONALLY CONTROLLED TUMOR PROTEIN HOMOLOG (TCTP).	swissprot P35691	ND
415	805.5	PROBABLE ATP-DEPENDENT PERMEASE PRECURSOR.	swissprot P25371	ND
416	805.0	NATURAL KILLER CELL ENHANCING FACTOR.	sptrembl O93241	Posttranslational modification.

				protein turnover, chaperones
417	804.9	HYPOTHETICAL 61.8 KD PROTEIN C12B10.03 IN CHROMOSOME 1.	swissprot Q10437	ND
418	803.1	ALPHA-MANNOSIDASE.	sptrembl O13344	Carbohydrate transport and metabolism
419	800.6	UBIQUITIN.	sptrembl Q9Y736	ND
420	800.3	ACETYL-COA ACETYLTRANSFERASE.	tremblnew CAA22123	Lipid metabolism
421	800.1	VANADATE RESISTANCE PROTEIN GOG5/VRG4/VAN2.	swissprot P40107	ND
422	799.0	HISTONE H4.	swissprot P04914	ND
423	797.3	CARNITINE ACETYL TRANSFERASE FACC.	sptrembl O13363	ND
424	795.3	EBURICOL 14 ALPHA- DEMETHYLASE.	tremblnew AAF18469	ND
425	795.1	HYPOTHETICAL 45.2 KD GTP-BINDING PROTEIN IN TRX1-ZPR1 INTERGENIC REGION.	swissprot P42942	ND
426	793.9	26S PROTEASOME REGULATORY SUBUNIT MTS4 (19S REGULATORY CAP REGION OF 26S PROTEASE SUBUNIT 2).	swissprot P87048	ND
427	792.2	OLIGOSACCHARYLTRANS FERASE SUBUNIT.	sptrembl Q9Y716	ND
428	792.0	PROBABLE METHYLMALONATE- SEMIALDEHYDE DEHYDROGENASE [ACYLATING] PRECURSOR (EC 1.2.1.27) (MMSDH).	swissprot P52713	Energy production and conversion
429	791.6	NAM7 PROTEIN (NONSENSE-MEDIATED MRNA DECAY PROTEIN 1) (UP-FRAMESHIFT SUPPRESSOR 1).	swissprot P30771	DNA replication, recombination and repair
430	791.4	Murine Int6 protein associated with MMTV integration and tumour growth.	geneseq W02113	ND
431	789.7	SULFUR METABOLITE REPRESSION CONTROL PROTEIN.	swissprot Q00659	ND
432	788.3	RRNA BIOGENESIS PROTEIN RRP5.	swissprot Q05022	ND
433	787.5	PUTATIVE POTASSIUM CHANNEL SUBUNIT.	sptrembl O59826	Energy production and conversion
434	787.2	40S RIBOSOMAL PROTEIN S26E (CRP5) (13.6 KD RIBOSOMAL PROTEIN).	swissprot P21772	ND

435	786.8	ELONGATION FACTOR 1-BETA (EF-1-BETA) (P30).	swissprot P30151	ND
436	786.6	METHIONYL-TRNA SYNTHETASE-LIKE PROTEIN.	tremblnew CAB36842	Translation, ribosomal structure and biogenesis
437	786.4	Mutant Aspergillus oryzae DEBY1058 rescued locus.	geneseqp W37993	ND
438	781.2	GLUTAMATE--CYSTEINE LIGASE CATALYTIC SUBUNIT (EC 6.3.2.2) (GAMMA-GLUTAMYL-CYSTEINE SYNTHETASE) (GAMMA-ECS) (GCS HEAVY CHAIN).	swissprot P19468	ND
439	781.2	60S RIBOSOMAL PROTEIN L17-A (YL17-A).	swissprot P05740	ND
440	780.5	IMPORTIN ALPHA SUBUNIT (KARYOPHERIN ALPHA SUBUNIT) (SERINE-RICH RNA POLYMERASE I SUPPRESSOR PROTEIN).	swissnew O14063	ND
441	780.4	UBIQUITIN-CONJUGATING ENZYME E2-28.4 KD (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN).	swissprot P33296	ND
442	780.0	Corn SUG1 polypeptide.	geneseqp W97652	Posttranslational modification, protein turnover, chaperones
443	777.0	FIBRILLARIN (NUCLEOLAR PROTEIN 1).	swissprot P15646	ND
444	775.9	HYPOTHETICAL 33.9 KD PROTEIN.	sptrembl P78995	Amino acid transport and metabolism
445	774.0	NADPH-DEPENDENT ALDEHYDE REDUCTASE (EC 1.1.1.2) (ALCOHOL DEHYDROGENASE (NADP-)) (ALDEHYDE REDUCTASE (NADPH)).	sptrembl Q12707	ND
446	772.5	ATP SYNTHASE DELTA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34) (FRAGMENT).	swissnew P56525	ND
447	771.5	UBIQUITIN-CONJUGATING PROTEIN.	tremblnew AAD55983	ND
448	770.1	HYPOTHETICAL 23.6 KD PROTEIN C23C11.13C IN CHROMOSOME 1.	swissprot O13917	ND
449	769.6	HYPOTHETICAL 68.5 KD PROTEIN.	sptrembl O60111	ND
450	768.7	UDP-N-ACETYLGLUCOSAMINE PYROPHOSPHORYLASE (EC	swissprot O74933	ND

		2.7.7.23).		
451	768.1	ALUMINIUM RESISTANCE PROTEIN 2.	swissprot P43553	Inorganic ion transport and metabolism
452	765.4	VACUOLAR AMINOPEPTIDASE I PRECURSOR (EC 3.4.11.22) (POLYPEPTIDASE) (LEUCINE AMINOPEPTIDASE IV) (LAPIV) (AMINOPEPTIDASE III) (AMINOPEPTIDASE YSCI).	swissprot P14904	Amino acid transport and metabolism
453	764.2	NUCLEOSOME ASSEMBLY PROTEIN.	sptrembl O59797	ND
454	763.6	HYPOTHETICAL 107.9 KD PROTEIN IN POL4-SRD1 INTERGENIC REGION.	swissprot P25618	ND
455	762.7	GAL10 BIFUNCTIONAL PROTEIN [INCLUDES: UDP-GLUCOSE 4-EPIMERASE (EC 5.1.3.2) (GALACTOWALDENASE); ALDOSE 1-EPIMERASE (EC 5.1.3.3) (MUTAROTASE)].	swissprot P40801	Cell envelope biogenesis, outer membrane
456	761.4	REPLICATION PROTEIN.	swissprot P03858	ND
457	760.5	UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL PRECURSOR (EC 1.10.2.2) (RIESKE IRON-SULFUR PROTEIN) (RISP).	swissprot P07056	Energy production and conversion
458	759.8	POTENTIAL CAAX PRENYL PROTEASE 1 (EC 3.4.24.-) (PRENYL PROTEIN-SPECIFIC ENDOPROTEASE 1) (PPSEP 1).	swissprot Q10071	Posttranslational modification, protein turnover, chaperones
459	758.2	PUTATIVE MITOCHONDRIAL PHOSPHATE CARRIER PROTEIN.	tremblnew CAB55764	ND
460	757.5	31.1 KD PROTEIN IN DCM-SERU INTERGENIC REGION.	swissprot P31658	ND
461	757.3	BIFUNCTIONAL PURINE BIOSYNTHETIC PROTEIN ADF1 [INCLUDES: PHOSPHORIBOSYLAMINE--GLYCINE LIGASE (EC 6.3.4.13) (GARS) (GLYCINAMIDE RIBONUCLEOTIDE SYNTHETASE) (PHOSPHORIBOSYLGLYCINAMIDE SYNTHETASE);	swissprot Q99148	Nucleotide transport

		PHOSPHORIBOSYLFORMYLGLYCINAMIDINE CYCLO-LIGASE (EC 6.3.3.1) (AIRS) (PHOSPHORIBOSYL-AMINOIMIDAZOLE SYNTHETASE) (AIR SYNTHASE)].		
462	757.2	PATHOGENICITY PROTEIN.	sptrembl O93846	ND
463	754.9	PUTATIVE DNA-DIRECTED RNA POLYMERASE III LARGEST SUBUNIT.	sptrembl O94666	Transcription
464	753.8	SECRETORY PATHWAY GDP DISSOCIATION INHIBITOR.	swissprot P39958	ND
465	752.6	GUANINE NUCLEOTIDE-BINDING PROTEIN ALPHA SUBUNIT.	swissprot O42784	ND
466	752.2	HYPOTHETICAL 22.7 KD PROTEIN.	sptrembl O60073	ND
467	749.7	ALLANTOINASE (EC 3.5.2.5).	swissprot P32375	Nucleotide transport
468	748.8	TRANSCRIPTION FACTOR TRI6.	tremblnew BAA83724	ND
469	748.3	Ribosomal protein L41.	geneseqp R77658	Translation, ribosomal structure and biogenesis
470	748.0	RAN/SPII BINDING PROTEIN.	sptrembl Q09717	ND
471	746.4	MITOCHONDRIAL PROCESSING PEPTIDASE ALPHA SUBUNIT PRECURSOR (EC 3.4.24.64) (ALPHA-MPP).	swissprot P23955	ND
472	745.3	Human mammatatin amino acid sequence.	geneseqp Y23756	ND
473	744.9	NADH-UBIQUINONE OXIDOREDUCTASE 21.3 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3).	swissprot P19968	ND
474	744.1	MYO-INOSITOL-1-PHOSPHATE SYNTHASE (EC 5.5.1.4) (IPS).	swissprot P42800	Lipid metabolism
475	743.9	HYPOTHETICAL 61.3 KD PROTEIN CY369.29.	sptrembl P71838	ND
476	743.6	60S RIBOSOMAL PROTEIN L27-A..	tremblnew CAB39364	ND
477	741.1	EUKARYOTIC TRANSLATION INITIATION FACTOR 2 GAMMA SUBUNIT (EIF-2- GAMMA).	swissprot P32481	Amino acid transport and metabolism
478	741.0	PROTEASOME COMPONENT PRE4 (EC 3.4.99.46) (MACROPAIN SUBUNIT PRE4) (PROTEINASE YSCE	swissprot P30657	ND

		SUBUNIT PRE4) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT PRE4).		
479	740.3	MULTICATALYTIC PROTEINASE 222 aa, chain M+1	pdb 1RYP	ND
480	739.6	EPD1 PROTEIN PRECURSOR.	swissprot P56092	ND
481	738.3	PROBABLE GAMMA- GLUTAMYL PHOSPHATE REDUCTASE.	tremblnew CAB57445	Amino acid transport and metabolism
482	737.8	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew CAB39853	ND
483	736.5	PROBABLE ARGININOSUCCINATE LYASE (EC 4.3.2.1) (ARGINOSUCCINASE) (ASAL).	swissprot P50514	Amino acid transport and metabolism
484	735.3	ANTHRANILATE SYNTHASE COMPONENT II (EC 4.1.3.27) [INCLUDES: GLUTAMINE AMIDOTRANSFERASE; INDOLE-3-GLYCEROL PHOSPHATE SYNTHASE (EC 4.1.1.48) (IGPS); N-(5'- PHOSPHORIBOSYL)ANTHR ANILATE ISOMERASE (EC 5.3.1.24) (PRAI)].	swissprot P00908	ND
485	734.4	ACONITATE HYDRATASE, MITOCHONDRIAL PRECURSOR (EC 4.2.1.3) (CITRATE HYDRO-LYASE) (ACONITASE).	swissprot O13966	Energy production and conversion
486	733.9	PROBABLE SUCCINYL- COA LIGASE [GDP- FORMING] BETA-CHAIN, MITOCHONDRIAL PRECURSOR (EC 6.2.1.4) (SUCCINYL-COA SYNTHETASE, BETA CHAIN) (SCS- BETA).	swissprot P53312	Energy production and conversion
487	732.9	Urate oxidase encoded by A.flavus-derived cDNA clone 9C.	geneseqp R10222	ND
488	732.0	PUTATIVE PHOPHODIESTERASE - NUCLEOTIDE PYROPHOSPHATASE PRECURSOR.	sptrembl O94323	ND
489	731.2	CAMP-DEPENDENT PROTEIN KINASE REGULATORY CHAIN.	swissnew O14448	ND
490	730.2	K06A5.6 PROTEIN.	sptrembl O44549	Lipid metabolism
491	730.0	60S RIBOSOMAL PROTEIN	tremblnew	Translation,

		L21.	CAB44755	ribosomal structure and biogenesis
492	729.0	PUTATIVE ALANINE AMINOTRANSFERASE, MITOCHONDRIAL PRECURSOR (EC 2.6.1.2) (GLUTAMIC--PYRUVIC TRANSAMINASE) (GPT) (GLUTAMIC--ALANINE TRANSAMINASE).	swissprot P52893	ND
493	726.0	PUTATIVE NADH-CYTOCHROME B5 REDUCTASE.	sptrembl O74557	Coenzyme metabolism
494	725.9	CYTOCHROME C1, HEME PROTEIN PRECURSOR.	swissprot P07142	ND
495	725.2	HYPOTHETICAL 74.5 KD PROTEIN C4H3.03C IN CHROMOSOME I.	swissprot Q10211	ND
496	724.2	MITOCHONDRIAL PRECURSOR PROTEINS IMPORT RECEPTOR (72 KD MITOCHONDRIAL OUTER MEMBRANE PROTEIN) (MITOCHONDRIAL IMPORT RECEPTOR FOR THE ADP/ATP CARRIER) (TRANSLOCASE OF OUTER MEMBRANE TOM70).	swissprot P23231	ND
497	724.1	MITOCHONDRIAL RIBOSOMAL PROTEIN S24.	swissprot P08580	Translation, ribosomal structure and biogenesis
498	722.5	SPERMIDINE SYNTHASE.	sptrembl Q9Y8H7	Amino acid transport and metabolism
499	721.9	RNA BINDING PROTEIN.	sptrembl O60059	ND
500	721.0	RNA BINDING PROTEIN.	sptrembl O59800	ND
501	720.5	HYPOTHETICAL 60.7 KD PROTEIN C1B1.02C IN CHROMOSOME I.	sptrembl O13863	ND
502	718.8	P-TYPE ATPASE (FRAGMENT).	tremblnew CAB65297	Inorganic ion transport and metabolism
503	718.3	MNN9 PROTEIN.	swissprot P39107	ND
504	718.3	HISTONE H2B.	swissprot P23754	ND
505	717.6	HYPOTHETICAL 67.8 KD PROTEIN IN IK11-ERG9 INTERGENIC REGION.	swissprot P38875	ND
506	716.6	BIFUNCTIONAL PURINE BIOSYNTHESIS PROTEIN ADE17 [INCLUDES: PHOSPHORIBOSYLAMINOI MIDAZOLECARBOXAMIDE FORMYLTRANSFERASE (EC 2.1.2.3) (AICAR TRANSFORMYLASE); IMP	swissprot P38009	Nucleotide transport

		CYCLOHYDROLASE (EC 3.5.4.10) (INOSINICASE) (IMP SYNTHETASE) (ATIC)].		
507	716.2	GABA PERMEASE.	sptrembl Q9Y860	Amino acid transport and metabolism
508	715.8	PUTATIVE MANNOSE-1-PHOSPHATE GAUNYL TRANSFERASE.	sptrembl O60064	ND
509	715.5	PUTATIVE CYSTINE-RICH TRANSCRIPTIONAL REGULATOR.	sptrembl O74853	ND
510	713.6	BETA-GLUCOSIDASE PRECURSOR (EC 3.2.1.21).	tremblnew AAF21242	ND
511	712.6	CHORISMATE MUTASE (EC 5.4.99.5).	sptrembl Q9Y7B2	ND
512	712.4	PROBABLE ATP-DEPENDENT TRANSPORTER YOL075C.	swissprot Q08234	ND
513	709.4	CYCLOPHILIN, MITOCHONDRIAL FORM PRECURSOR (EC 5.2.1.8).	sptrembl Q99009	Posttranslational modification, protein turnover, chaperones
514	709.2	ER-DERIVED VESICLES PROTEIN ERV14.	swissnew P53173	ND
515	707.3	PUTATIVE CALCIUM P-TYPE ATPASE (FRAGMENT).	tremblnew CAB65293	Inorganic ion transport and metabolism
516	705.7	RASP F 9 (FRAGMENT).	sptrembl O42800	ND
517	704.8	HYPOTHETICAL 20.9 KD PROTEIN.	sptrembl O94286	ND
518	704.7	COATOMER BETA SUBUNIT (BETA-COAT PROTEIN) (BETA-COP).	swissprot P23514	ND
519	702.9	MSH3 PROTEIN.	sptrembl O81818	DNA replication, recombination and repair
520	702.1	POTASSIUM-TRANSPORTING ATPASE ALPHA CHAIN (EC 3.6.1.36) (PROTON PUMP) (GASTRIC H ⁺ /K ⁺ ATPASE ALPHA SUBUNIT).	swissprot P19156	ND
521	702.0	PHOSPHATIDATE CYTIDYLYLTRANSFERASE (EC 2.7.7.41) (CDP-DIGLYCERIDE SYNTHETASE) (CDP-DIGLYCERIDE PYROPHOSPHORYLASE) (CDP-DIACYLGLYCEROL SYNTHASE) (CDS) (CTP:PHOSPHATIDATE CYTIDYLYLTRANSFERASE) (CDP-DAG SYNTHASE).	swissprot P38221	Lipid metabolism
522	701.7	VIRULENCE PROTEIN	sptrembl Q00368	ND

		CAP20.		
523	700.9	CHROMOSOME XII READING FRAME ORF YLR009W.	sptrembl Q07915	Translation, ribosomal structure and biogenesis
525	699.5	PUTATIVE YEAST CELL DIVISION CYCLE CDC50 HOMOLOG .	sptrembl O94568	ND
526	698.2	ACONITATE HYDRATASE, MITOCHONDRIAL PRECURSOR (EC 4.2.1.3) (CITRATE HYDRO-LYASE) (ACONITASE).	swissprot O13966	Energy production and conversion
527	695.7	PUTATIVE DELTA-1- PYROLINE-5- CARBOXYLATE DEHYDROGENASE.	sptrembl O74766	Energy production and conversion
528	694.5	GLUTATHIONE PEROXIDASE HYR1 (EC 1.11.1.9).	swissprot P40581	Posttranslational modification, protein turnover, chaperones
529	693.9	PROBABLE VACUOLAR SORTING PROTEIN C9G1.14C (FRAGMENT).	sptrembl O14309	ND
530	693.0	UBIQUITIN-CONJUGATING ENZYME E2-24 KD (EC 6.3.2.19) (UBIQUITIN- PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN).	swissprot P21734	ND
531	692.8	CYTOCHROME C OXIDASE POLYPEPTIDE V PRECURSOR (EC 1.9.3.1).	swissprot P06810	ND
532	691.7	HYPOTHETICAL ZINC- TYPE ALCOHOL DEHYDROGENASE-LIKE PROTEIN IN PRE5-FET4 INTERGENIC REGION.	swissprot Q04894	ND
533	691.5	SECRETORY PATHWAY GDP DISSOCIATION INHIBITOR.	swissprot P39958	ND
534	690.1	GLUCAN SYNTHASE.	sptrembl Q9Y8B3	ND
535	689.7	SUPEROXIDE DISMUTASE PRECURSOR (EC 1.15.1.1).	sptrembl Q9Y783	ND
536	689.2	DOLICHOL-PHOSPHATE MANNOSYLTRANSFERASE (EC 2.4.1.83) (DOLICHOL- PHOSPHATE MANNOSE SYNTHASE) (DOLICHYL- PHOSPHATE BETA-D- MANNOSYLTRANSFERASE).	sptrembl O14466	ND
537	688.9	PUTATIVE FUMARASE.	sptrembl O24649	ND
538	688.8	PROBABLE INOSINE-5'- MONOPHOSPHATE DEHYDROGENASE (EC	swissprot P50095	ND

		1.1.1.205) (IMP DEHYDROGENASE) (IMPDH) (IMPD).		
539	687.4	CHROMOSOME XV READING FRAME ORF YOR197W.	sptrembl Q08601	ND
540	686.5	PUTATIVE PROTEASOME COMPONENT PUP1 PRECURSOR (EC 3.4.99.46) (MACROPAIN SUBUNIT) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT).	swissprot Q09841	Posttranslational modification, protein turnover, chaperones
541	685.3	SERYL-TRNA SYNTHETASE (EC 6.1.1.11) (SERINE--TRNA LIGASE) (SERRS).	swissprot Q39230	Translation, ribosomal structure and biogenesis
542	684.0	HYPOTHETICAL 41.3 KD PROTEIN C26F1.12C IN CHROMOSOME I.	swissprot Q10498	ND
543	683.8	SEXUAL DIFFERENTIATION PROCESS PROTEIN ISP4.	swissprot P40900	ND
544	682.8	FATTY ACID OMEGA-HYDROXYLASE (P450FOXY).	sptrembl Q9Y8G7	ND
545	680.9	METHIONINE AMINOPEPTIDASE.	sptrembl O60085	Translation, ribosomal structure and biogenesis
546	679.8	UBIQUITIN CONJUGATING ENZYME.	tremblnew CAB38416	ND
547	679.5	NITRITE REDUCTASE.	sptrembl Q92198	ND
548	679.5	PUTATIVE GOLGI MEMBRANE PROTEIN-SORTING PROTEIN.	sptrembl O94291	ND
549	677.1	COLONY I.	sptrembl Q01491	ND
550	671.0	MALTOSE PERMEASE.	sptrembl Q9Y845	ND
551	668.6	ANNEXIN XIV.	sptrembl O59907	ND
552	667.7	SQUALENE MONOOXYGENASE (EC 1.14.99.7) (SQUALENE EPOXIDASE) (SE).	swissprot Q92206	Coenzyme metabolism
553	667.2	PROBABLE ATP-DEPENDENT RNA HELICASE DBP8.	swissprot P38719	DNA replication, recombination and repair
554	666.7	HYPOTHETICAL 55.8 KD PROTEIN.	tremblnew CAB63552	ND
555	664.9	CYTOCHROME P450 MONOOXYGENASE (FRAGMENT).	sptrembl O64410	ND
556	664.4	ATP SYNTHASE PROTEIN 9, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34) (LIPID-BINDING PROTEIN).	swissprot P00842	ND
557	663.4	ATP SYNTHASE SUBUNIT	swissprot O13349	ND

		4, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).		
558	663.4	ERGOSTEROL BIOSYNTHESIS PROTEIN (KES1).	sptrembl O74178	ND
559	662.8	URICASE (EC 1.7.3.3) (URATE OXIDASE).	swissprot Q00511	ND
560	662.4	GLYCEROL-3-PHOSPHATE DEHYDROGENASE (EC 1.1.1.8).	tremblnew CAB58452	ND
561	661.8	PUTATIVE GLUTAMYL- TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.17) (GLUTAMATE--TRNA LIGASE) (GLURS).	sptrembl O13775	Translation, ribosomal structure and biogenesis
562	661.5	PHOSPHORIBOSYLFORMY LGLYCINAMIDINE SYNTHASE (EC 6.3.5.3) (FGAM SYNTHASE) (FORMYLGLYCINAMIDE RIBOTIDE AMIDOTRANSFERASE) (FGARAT).	swissprot P15254	Nucleotide transport
563	661.0	Mutant <i>Aspergillus oryzae</i> DEBY932 rescued locus.	geneseqp W37992	ND
564	660.6	N-MYRISTOYL TRANSFERASE.	tremblnew BAA87865	ND
565	660.1	HYPOTHETICAL 79.2 KD PROTEIN.	sptrembl Q04585	Energy production and conversion
566	659.6	PUTATIVE ALDEHYDE DEHYDROGENASE (NAD+) (EC 1.2.1.3).	sptrembl O74187	Energy production and conversion
567	657.9	PROTEASOME COMPONENT PRE2 PRECURSOR (EC 3.4.99.46) (MACROPAIN SUBUNIT PRE2) (PROTEINASE YSCE SUBUNIT PRE2) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT PRE2).	swissprot P30656	Posttranslational modification, protein turnover, chaperones
568	657.8	BIFUNCTIONAL HISTIDINE BIOSYNTHESIS PROTEIN HIS7 [INCLUDES: HISH- TYPE AMIDOTRANSFERASE (EC 2.4.2.-; HISH-TYPE CYCLASE)].	swissprot P33734	Amino acid transport and metabolism
569	657.3	CYCLOPHILIN OVCYP-2 (EC 5.2.1.8).	sptrembl Q25633	Posttranslational modification, protein turnover, chaperones
570	657.0	40S RIBOSOMAL PROTEIN S3AE (S1).	swissprot Q09781	Translation, ribosomal structure and

				biogenesis
571	657.0	PUTATIVE RHO GDP-DISSOCIATION INHIBITOR (RHO GDI).	sptrembl O14224	ND
572	656.5	NHP2/RS6 FAMILY PROTEIN YEL026W HOMOLOG.	swissprot Q21568	Translation, ribosomal structure and biogenesis
573	655.1	Aminopeptidase.	geneseqp W05589	ND
574	655.1	YNT20 PROTEIN.	swissprot P54964	ND
575	651.4	ATP SYNTHASE D CHAIN, MITOCHONDRIAL (EC 3.6.1.34).	swissprot O13350	ND
576	649.3	HISTONE H2B.	swissprot P23754	ND
577	648.3	RIBOFLAVIN SYNTHASE ALPHA CHAIN.	sptrembl Q9Y7P0	Coenzyme metabolism
578	648.1	60S RIBOSOMAL PROTEIN L6-A (L17) (YL16) (RP18).	swissprot Q02326	ND
579	647.9	CALNEXIN HOMOLOG PRECURSOR.	swissprot P36581	ND
580	647.0	HYPOTHETICAL 50.5 KD PROTEIN.	sptrembl Q03940	DNA replication, recombination and repair
581	646.7	HYDROXYMETHYLGLUTARYL-COA LYASE (EC 4.1.3.4) (HMG-COA LYASE) (HL) (3-HYDROXY-3-METHYLGLUTARATE-COA LYASE).	swissprot P13703	Amino acid transport and metabolism
582	645.8	FATTY ACID DESATURASE (FRAGMENT).	sptrembl O74645	ND
583	644.7	HET-C PROTEIN.	tremblnew AAD54275	ND
584	643.9	SIK1 PROTEIN.	swissprot Q12460	Translation, ribosomal structure and biogenesis
585	642.1	B. bassiana POPS reductase protein.	geneseqp Y33673	ND
586	639.7	CARBONIC ANHYDRASE (EC 4.2.1.1).	sptrembl Q43061	Inorganic ion transport and metabolism
587	639.5	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl Q9Y7K1	Posttranslational modification, protein turnover, chaperones
588	638.9	3-ISOPROPYLMALATE DEHYDROGENASE (EC 1.1.1.85) (BETA-IPM DEHYDROGENASE) (IMDH) (3-IPM-DH).	swissprot P34738	Amino acid transport and metabolism
589	638.9	CELL DIVISION CONTROL PROTEIN NDA4.	swissprot P41389	ND
590	637.4	HYPOTHETICAL 55.4 KD	sptrembl Q9Y439	ND

		PROTEIN.		
591	633.4	RIBOSOMAL PROTEIN L37 HOMOLOG.	tremblnew CAB58374	ND
592	633.0	MITOGEN-ACTIVATED PROTEIN KINASE (EC 2.7.1.-) (MAPK).	sptrembl Q00859	Signal transduction mechanisms
593	631.9	SLA2P.	sptrembl O94097	ND
594	629.4	HASNA-I.	sptrembl Q92849	Inorganic ion transport and metabolism
595	627.9	G2/MITOTIC-SPECIFIC CYCLIN B.	swissprot P30284	ND
596	627.4	CARBOXYPEPTIDASE S1 (EC 3.4.16.6).	swissprot P34946	ND
597	626.5	MAL3 PROTEIN.	swissnew Q10113	ND
598	626.1	Oat HaSGT protein fragment.	geneseqp W64390	ND
599	625.2	HYPOTHETICAL PROTEIN C5D6.13 (FRAGMENT).	sptrembl O14205	ND
600	625.0	60S RIBOSOMAL PROTEIN L26.	swissnew P78946	ND
601	623.8	HYPOTHETICAL 43.9 KD PROTEIN IN MSYB-HTRB INTERGENIC REGION (ORF1).	swissprot P25744	ND
602	623.1	URIDYLATE KINASE (EC 2.7.4.-) (UK) (URIDINE MONOPHOSPHATE KINASE) (UMP KINASE).	swissprot P15700	Nucleotide transport
603	620.9	HYPOTHETICAL 29.4 KD PROTEIN C4D7.06C IN CHROMOSOME I.	sptrembl O14172	ND
604	620.7	EPITHELIAL BASOLATELAR CHLORIDE CONDUCTANCE REGULATOR.	sptrembl Q28689	ND
605	619.2	ALCOHOL DEHYDROGENASE I (EC 1.1.1.1).	swissprot P41747	ND
606	618.9	N-MYRISTOYL TRANSFERASE.	tremblnew BAA87865	ND
607	618.8	S. cerevisiae uronate dehydrogenase.	geneseqp W29217	ND
608	617.4	SEXUAL DIFFERENTIATION PROCESS PROTEIN ISP4.	swissprot P40900	ND
609	616.1	GALACTOKINASE (EC 2.7.1.6).	swissnew P04385	Carbohydrate transport and metabolism
610	614.9	8 KDA CYTOPLASMIC DYNEIN LIGHT CHAIN.	sptrembl O94111	ND
611	614.6	FATTY ALDEHYDE DEHYDROGENASE (EC 1.2.1.3) (ALDEHYDE DEHYDROGENASE, MICROSOMAL) (ALDH	swissprot P47740	Energy production and conversion

		CLASS 3).		
612	614.4	HYPOTHETICAL 79.2 KD PROTEIN.	sptrembl Q04585	Energy production and conversion
613	614.3	CHROMOSOME IV READING FRAME ORF YDL166C.	sptrembl Q12055	Nucleotide transport
614	612.6	PHOSPHATIDYLSERINE DECARBOXYLASE PROENZYME 1 PRECURSOR (EC 4.1.1.65).	sptrembl O14333	Lipid metabolism
615	612.5	RIBOSOMAL PROTEIN CRP7.	sptrembl O93798	ND
616	612.4	SERINE-TYPE CARBOXYPEPTIDASE F PRECURSOR (EC 3.4.16.-) (PROTEINASE F) (CPD-II).	swissprot P52718	ND
617	610.3	PHOSPHOENOLPYRUVATE CARBOXYKINASE [ATP] (EC 4.1.1.49).	swissprot O13434	Energy production and conversion
618	609.4	ACYL CARRIER PROTEIN, MITOCHONDRIAL PRECURSOR (ACP) (NADH-UBIQUINONE OXIDOREDUCTASE 9.6 KD SUBUNIT) (EC 1.6.5.3) (EC 1.6.99.3).	swissprot P11943	ND
619	608.2	GLUCOSE-6-PHOSPHATE ISOMERASE, CYTOSOLIC (EC 5.3.1.9) (GPI) (PHOSPHOGLUCOSE ISOMERASE) (PGI) (PHOSPHOHEXOSE ISOMERASE) (PHI).	sptrembl O94371	Carbohydrate transport and metabolism
620	607.9	ISOCITRATE LYASE (EC 4.1.3.1) (ISOCITRASE) (ISOCITRATASE) (ICL).	swissprot P28299	Energy production and conversion
621	607.8	TYROSYL-TRNA SYNTHETASE, MITOCHONDRIAL PRECURSOR (EC 6.1.1.1) (TYROSINE--TRNA LIGASE) (TYRRS).	swissprot P28669	ND
622	605.7	HYPOTHETICAL 55.8 KD PROTEIN.	tremblnew CAB63552	ND
623	605.6	HYPOTHETICAL 24.5 KD PROTEIN.	tremblnew CAB52035	ND
624	605.2	60S RIBOSOMAL PROTEIN L32-A.	swissprot P79015	Translation, ribosomal structure and biogenesis
625	604.7	PROBABLE RIBOSE-PHOSPHATE PYROPHOSPHOKINASE 5 (EC 2.7.6.1) (PHOSPHORIBOSYL PYROPHOSPHATE	swissprot Q12265	Nucleotide transport

		SYNTHETASE 5).		
626	604.2	HYPOTHETICAL 55.5 KD PROTEIN C17A2.05 IN CHROMOSOME I.	sptrembl O13755	Energy production and conversion
627	603.9	HOMOLOGUES TO NITRILE HYDRATASE REGION 3'- HYPOTHETICAL PROTEIN P47K OF P. CHLORORAPHIS.	sptrembl P94400	ND
628	603.8	Cercospora nicotianae cercosporin resistance sor1 gene product.	geneseqp W71467	Nucleotide transport
629	603.7	PUTATIVE HYDROXYACYLGLUTATHI ONE HYDROLASE..	tremblnew CAB57337	ND
630	602.9	NADH-UBIQUINONE OXIDOREDUCTASE 21 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-21KD) (CI-21KD).	swissprot Q02854	ND
631	602.6	OPSN-1.	tremblnew AAD45253	ND
632	602.0	PUTATIVE MITOCHONDRIAL PROTEIN IMPORT PROTEIN - DNAJ PROTEIN.	sptrembl O74752	Posttranslational modification, protein turnover, chaperones
633	601.4	SEPTIN B.	sptrembl P78620	ND
634	601.4	ORNITHINE DECARBOXYLASE (EC 4.1.1.17) (ODC).	swissprot P27121	ND
635	601.1	FADE13.	sptrembl O86319	Lipid metabolism
636	598.6	PUTATIVE GTP CYCLOHYDROLASE.	tremblnew CAB65619	ND
637	597.2	PROBABLE ATP- DEPENDENT PERMEASE C3F10.11C.	swissprot Q10185	ND
638	596.5	YEAST REDUCED VIABILITY UPON STARVATION PROTEIN 161 HOMOLOG. IMPLICATED IN CELL GROWTH AND CYTOSKELETAL OR GANISATION.	tremblnew CAA22181	ND
639	595.3	PROTEIN KINASE DSK1 (EC 2.7.1.-) (DIS1- SUPPRESSING PROTEIN KINASE).	swissprot P36616	ND
640	595.2	HYPOTHETICAL 46.5 KD PROTEIN C12B10.04 IN CHROMOSOME I.	swissprot Q10438	ND
641	595.1	PUTATIVE HELICASE C6F12.16 IN CHROMOSOME I.	swissprot O14232	DNA replication, recombination and repair
642	594.9	HYPOTHETICAL 48.3 KD PROTEIN IN MOB1-SGA1 INTERGENIC REGION.	swissprot P40487	Translation, ribosomal structure and

				biogenesis
643	593.8	<i>S. cerevisiae</i> type 2 methionine aminopeptidase (MetAP2).	geneseqp W94766	Translation, ribosomal structure and biogenesis
644	593.1	HYPOTHETICAL 68.3 KD PROTEIN.	sptrembl Q03195	ND
645	593.0	RAS-2 PROTEIN.	swissnew Q01387	ND
646	591.1	DIHYDROLIPOAMIDE SUCCINYLTRANSFERASE.	tremblnew AAD47296	ND
647	590.3	HYPOTHETICAL 68.1 KD PROTEIN.	tremblnew CAB63538	Nucleotide transport
648	590.2	PUTATIVE TYPE III ALCOHOL DEHYDROGENASE.	sptrembl Q94532	ND
649	590.0	NUCLEAR TRANSPORT FACTOR 2 (NTF-2).	swissprot P87102	ND
650	589.8	<i>Aspergillus niger</i> adhA gene.	geneseqp P70497	ND
651	588.9	NADH-UBIQUINONE OXIDOREDUCTASE 12 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-12KD) (CI-12KD).	swissprot Q03015	ND
652	588.0	ALTERNATIVE OXIDASE.	sptrembl O93788	ND
653	587.6	HYPOTHETICAL 31.1 KD PROTEIN IN SIP18-SPT21 INTERGENIC REGION.	swissprot Q03219	ND
654	587.0	PISATIN DEMETHYLASE (EC 1.14.-.-) (CYTOCHROME P450 57A1).	swissprot Q12645	ND
655	586.5	FISSION YEAST.	sptrembl P78771	ND
656	584.1	ADENYLOSUCCINATE LYASE (EC 4.3.2.2) (ADENYLOSUCCINASE) (ASL).	swissprot Q05911	Nucleotide transport
657	583.8	PROTEIN TRANSLATION FACTOR SUI1.	swissprot P32911	ND
658	582.3	HEAT SHOCK PROTEIN 90 HOMOLOG (SUPPRESSOR OF VEGETATIVE INCOMPATIBILITY MOD-E).	swissprot O43109	ND
659	582.3	CELL DIVISION CONTROL PROTEIN 54.	swissprot P30665	DNA replication, recombination and repair
660	582.2	HYPOTHETICAL 36.8 KD PROTEIN C9E9.11 IN CHROMOSOME I	sptrembl O14295	ND
661	581.2	BIFUNCTIONAL HISTIDINE BIOSYNTHESIS PROTEIN HIS7 [INCLUDES: HISH-TYPE AMIDOTRANSFERASE (EC 2.4.2.-.-); HISF-TYPE CYCLASE].	swissprot P33734	Amino acid transport and metabolism
662	581.1	RIBOSOMAL PROTEIN	sptrembl O93798	ND

		CRP7.		
663	580.4	HSP78P.	sptrembl Q12137	Posttranslational modification, protein turnover, chaperones
664	579.8	BASIC AMINO-ACID PERMEASE.	swissprot P38971	Amino acid transport and metabolism
665	576.9	EXTRACELLULAR PUTATIVE DNASE.	tremblnew AAD53090	ND
666	576.2	TFIID SUBUNIT TAF72P.	sptrembl O13282	ND
667	576.1	HISTIDYL-TRNA SYNTHETASE (EC 6.1.1.21) (HISTIDINE--TRNA LIGASE) (HISRS).	swissprot P43823	ND
668	575.2	40S RIBOSOMAL PROTEIN S27.	swissprot O74330	ND
669	574.9	MALTOSE PERMEASE MAL3T (MALTOSE TRANSPORT PROTEIN MAL3T).	swissprot P38156	ND
670	574.3	HYPOTHETICAL 49.9 KD PROTEIN.	sptrembl Q03441	ND
671	573.6	60S RIBOSOMAL PROTEIN L37-A (L35) (YP55).	swissprot P49166	ND
672	573.4	60S RIBOSOMAL PROTEIN L31 (L34) (YL28).	swissprot P04649	ND
673	572.7	NUCLEAR PROTEIN SNF4 (REGULATORY PROTEIN CAT3).	swissprot P12904	ND
674	572.2	OLIGOMYCIN SENSITIVITY CONFERRING PROTEIN.	sptrembl O74190	Energy production and conversion
675	571.4	40S RIBOSOMAL PROTEIN S8 (S14) (YS9) (RP19).	swissprot P05754	Translation, ribosomal structure and biogenesis
676	571.1	60S RIBOSOMAL PROTEIN L13.	sptrembl Q9Z313	ND
677	570.6	GARI PROTEIN.	swissnew P28007	ND
678	570.6	GEPHYRIN (PUTATIVE GLYCINE RECEPTOR-TUBULIN LINKER PROTEIN).	swissprot Q03555	ND
679	570.4	ZINC FINGER PROTEIN SFP1.	swissprot P32432	ND
680	570.3	RECESSIVE SUPPRESSOR OF SECRETORY DEFECT.	swissprot P32368	ND
681	569.9	THIAMINE-4 (FRAGMENT).	sptrembl P79048	ND
682	569.2	PROBABLE SYNAPTOBREVIN HOMOLOG C6G9.11.	swissprot Q92356	ND
683	569.2	PYRROLINE-5-CARBOXYLATE REDUCTASE (EC 1.5.1.2) (P5CR) (P5C REDUCTASE).	swissprot P22008	Amino acid transport and metabolism

684	569.2	Human secreted protein encoded by gene 35 clone HTXCS21.	geneseqp W78160	Posttranslational modification, protein turnover, chaperones
685	568.5	HYPOTHETICAL 15.4 KD PROTEIN IN HAS1-JNM1 INTERGENIC REGION.	swissprot Q03554	ND
686	568.4	COPROPORPHYRINOGEN III OXIDASE (EC 1.3.3.3) (COPROPORPHYRINOGENASE) (COPROGEN OXIDASE) (COX).	swissprot P11353	Coenzyme metabolism
687	568.3	GTP-BINDING PROTEIN YPT51/VPS21.	swissprot P36017	ND
688	567.8	HYPOTHETICAL 56.5 KD PROTEIN IN HXT8 5'REGION AND IN PAU6 5'REGION.	swissprot P39941	Carbohydrate transport and metabolism
689	567.2	OLIGOMYCIN RESISTANCE ATP-DEPENDENT PERMEASE YOR1.	swissprot P53049	ND
690	567.0	ACTIN INTERACTING PROTEIN 2.	swissprot P46681	Energy production and conversion
691	563.9	60S RIBOSOMAL PROTEIN L43 (L37A) (YL35).	swissprot P49631	ND
692	563.6	HYPOTHETICAL 49.1 KD PROTEIN.	sptrembl O60140	ND
693	563.6	PEROXISOMAL MEMBRANE PROTEIN PAS20 (PEROXIN-13).	swissprot P80667	ND
694	561.6	PHOSPHATIDYLGLYCEROL /PHOSPHATIDYLINOSITOL TRANSFER PROTEIN.	sptrembl O94183	ND
695	561.4	HYPOTHETICAL 40.7 KD PROTEIN IN PYK1-SNC1 INTERGENIC REGION.	swissprot P39729	ND
696	559.0	PUTATIVE MITOCHONDRIAL PROTEIN IMPORT PROTEIN - DNAJ PROTEIN.	sptrembl O74752	Posttranslational modification, protein turnover, chaperones
697	558.2	PEPTIDYL-PROLYL CIS-TRANS ISOMERASE, FK506-BINDING PROTEIN.	tremblnew CAB46710	ND
698	557.9	PUTATIVE CYSTATHIONINE GAMMA-SYNTHASE (EC 4.2.99.9) (O-SUCCINYLMOMOSERINE (H10L)-LYASE).	swissprot P47164	Amino acid transport and metabolism
699	557.5	GLUCOKINASE (EC 2.7.1.2) (GLUCOSE KINASE) (GLK).	swissprot Q92407	ND
700	556.7	PUTATIVE SEPTIN.	tremblnew CAB61437	ND
701	556.6	UDP-GLUCOSE 6-DEHYDROGENASE (EC 1.1.1.22) (UDP-GLC	swissprot O02373	ND

		DEHYDROGENASE) (UDP-GLCDH) (UDPGDH) (SUGARLESS PROTEIN).		
702	556.2	60S RIBOSOMAL PROTEIN L14-A.	swissprot P36105	ND
703	554.4	HYPOTHETICAL 25.2 KD PROTEIN.	sptrembl Q9Y7K7	ND
704	553.9	NADPH-DEPENDENT BETA-KETOACYL REDUCTASE.	tremblnew AAD53514	ND
705	553.3	HYPOTHETICAL 16.1 KD PROTEIN.	sptrembl O74847	ND
706	553.1	PROTEASOME COMPONENT PUP2 (EC 3.4.99.46) (MACROPAIN SUBUNIT PUP2) (PROTEINASE YSCE SUBUNIT PUP2) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT PUP2).	swissprot P32379	ND
707	551.8	A. niger Bo-1 carboxypeptidase Y.	geneseqp R96737	ND
708	551.5	SIMILAR TO JUN ACTIVATION DOMAIN BINDING PROTEIN.	sptrembl O23130	ND
709	550.8	HYPOTHETICAL 47.4KD PROTEIN IN SHP1-SEC17 INTERGENIC REGION.	sptrembl O13630	ND
710	550.5	DNA-DIRECTED RNA POLYMERASE III LARGEST SUBUNIT (EC 2.7.7.6) (C160).	swissprot P04051	Transcription
711	549.5	GENE REGULATION 124 aa, chain A+B+C	pdb 1QD9	Translation, ribosomal structure and biogenesis
712	549.2	GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT.	swissprot O14435	ND
713	548.6	TRANSMEMBRANE PROTEIN.	tremblnew CAB65007	ND
714	548.6	Aspergillus nidulans essential protein AN17.	geneseqp Y06418	ND
715	547.2	2-OXOGLUTARATE DEHYDROGENASE E1 COMPONENT, MITOCHONDRIAL PRECURSOR (EC 1.2.4.2) (ALPHA-KETOGLUTARATE DEHYDROGENASE).	swissprot P20967	Energy production and conversion
716	547.0	40S RIBOSOMAL PROTEIN S20.	swissprot P55828	Translation, ribosomal structure and biogenesis
717	546.7	NADP(H)-DEPENDENT KETOSE REDUCTASE.	sptrembl O96496	ND
718	545.6	SIK1 PROTEIN.	swissprot Q12460	Translation.

				ribosomal structure and biogenesis
719	544.4	PUTATIVE STRUCTURE SPECIFIC REGOGNITION PROTEIN. POSSIBLE CHROMATIN-ASSOCIATED HMG PROTEIN.	sptrembl O94529	ND
720	544.3	BIOTIN SYNTHASE (EC 2.8.1.6) (BIOTIN SYNTHETASE).	swissprot P32451	Coenzyme metabolism
721	544.2	WHITE COLLAR 1 PROTEIN (WC1).	swissnew Q01371	ND
722	543.3	CODED FOR BY C. ELEGANS CDNA YK110H1.3.	sptrembl P91125	ND
723	543.2	SORBITOL UTILIZATION PROTEIN SOU2.	swissprot P87218	ND
724	543.2	40S RIBOSOMAL PROTEIN S10-A.	swissprot Q08745	ND
725	541.4	VANILLIN DEHYDROGENASE.	sptrembl O05619	ND
726	540.5	ESTERASE A.	sptrembl O87861	ND
727	539.1	HYPOTHETICAL 22.4 KD PROTEIN C22E12.05C IN CHROMOSOME I.	swissnew Q10358	ND
728	537.7	Alternaria alternata allergen Alta11.	geneseqp R71833	Translation, ribosomal structure and biogenesis
729	537.7	Cladosporium herbarum allergen Clah12.	geneseqp R99961	ND
730	535.6	PYRUVATE DECARBOXYLASE.	sptrembl O94185	Coenzyme metabolism
731	535.0	UBIQUITIN FUSION DEGRADATION PROTEIN-2.	sptrembl O60009	ND
732	534.3	DNA-DIRECTED RNA POLYMERASE I 190 KD POLYPEPTIDE (EC 2.7.7.6) (A190).	swissprot P10964	Transcription
733	534.2	RIBOSOMAL PROCESSING, RNA BINDING, NUCLEOLAR PROTEIN.	sptrembl O74400	Transcription
734	533.5	RPL24 PROTEIN.	tremblnew BAA84653	Translation, ribosomal structure and biogenesis
735	533.0	ALDO/KETO REDUCTASE.	tremblnew AAF11806	ND
736	532.9	VACUOLAR ATP SYNTHASE SUBUNIT G (EC 3.6.1.34) (V-ATPASE 13 KD SUBUNIT) (VACUOLAR H(+)-ATPASE SUBUNIT G).	swissprot P78713	ND
737	532.7	PROBABLE THIAMINE BIOSYNTHETIC	swissprot P40386	Coenzyme metabolism

		BIFUNCTIONAL ENZYME [INCLUDES: THIAMINE- PHOSPHATE PYROPHOSPHORYLASE (EC 2.5.1.3) (TMP PYROPHOSPHORYLASE) (TMP-PPASE); HYDROXYETHYLTHIAZOL E KINASE (EC 2.7.1.50) (4- METHYL-5-BETA- HYDROXYETHYLTHIAZOL E KINASE) (THZ KINASE) (TH KINASE)].		
738	532.7	PUTATIVE MITOCHONDRIAL CARRIER YOR222W.	swissnew Q99297	ND
739	530.9	TRANSPORTIN.	sptrembl O76331	ND
740	530.6	GLYCOGEN PHOSPHORYLASE (EC 2.4.1.1).	swissprot P06738	Carbohydrate transport and metabolism
741	530.2	PUTATIVE ADENOSINE KINASE.	tremblnew CAA19345	Carbohydrate transport and metabolism
742	530.2	HYPOTHETICAL 18.8 KD PROTEIN.	sptrembl O43073	ND
743	529.7	DDR48 STRESS PROTEIN (DNA DAMAGE- RESPONSIVE PROTEIN 48) (DDRP 48) (YP 75) (FLOCCULENT SPECIFIC PROTEIN).	swissprot P18899	ND
744	529.6	40S RIBOSOMAL PROTEIN S24 (RP50).	swissprot P26782	ND
745	529.5	JAB1 PROTEIN.	sptrembl O81388	ND
746	529.4	HYPOTHETICAL 43.7 KD PROTEIN C24B11.08C IN CHROMOSOME I.	swissprot Q09895	ND
747	529.3	PROTEIN KINASE SKP1P.	sptrembl O94456	ND
748	529.1	ORM1 PROTEIN.	swissprot P53224	ND
749	529.0	NAALADASE II PROTEIN.	sptrembl Q9Y3Q0	ND
750	528.9	PROTEIN PHOSPHOTASE 2A 65KD REGULATORY SUBUNIT.	tremblnew CAB55176	ND
751	528.3	NADH-UBIQUINONE OXIDOREDUCTASE 10.5 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I) (CI)	swissprot Q07842	ND
752	527.4	PUTATIVE MITOCHONDRIAL CARRIER PROTEIN C12B10.09.	swissprot Q10442	ND
753	527.3	CLATHRIN HEAVY CHAIN.	swissprot P22137	ND
754	527.2	YNI.123W HOMOLOG (FRAGMENT).	sptrembl O42705	Posttranslational modification, protein turnover, chaperones

755	526.6	CYCLOPROPANE-FATTY-ACYL-PHOSPHOLIPID SYNTHASE.	sptrembl O67624	ND
756	526.1	HYPOTHETICAL 107.7 KD PROTEIN IN TSP3-IPP2 INTERGENIC REGION.	swissprot Q03516	ND
757	526.0	PI021 PROTEIN.	sptrembl O13612	ND
758	525.1	SRP1 PROTEIN.	swissprot Q10193	ND
759	524.4	SMALL NUCLEAR RIBONUCLEOPROTEIN SM D3 (SNRNP CORE PROTEIN D3) (SM-D3).	swissprot P43331	Transcription
760	524.3	K09H11.1 PROTEIN.	sptrembl O01590	ND
761	524.1	COENZYME A SYNTHETASE.	sptrembl O74976	ND
762	524.0	HYPOTHETICAL 47.0 KD PROTEIN C23H3.03C IN CHROMOSOME 1.	sptrembl O42857	ND
763	523.8	TRIOSEPHOSPHATE ISOMERASE (EC 5.3.1.1) (TIM).	swissprot P04828	ND
764	523.6	HYPOTHETICAL 56.8 KD PROTEIN IN SCJ1-GUA1 INTERGENIC REGION PRECURSOR.	swissprot Q03655	ND
765	522.9	CGI-110 PROTEIN.	sptrembl Q9Y3B4	ND
766	522.4	NEUTRAL TREHALASE (EC 3.2.1.28) (ALPHA.ALPHA-TREHALASE) (ALPHA.ALPHA-TREHALOSE GLUCOHYDROLASE).	swissprot O42622	ND
767	521.8	GTPASE.	sptrembl P87027	ND
768	520.3	HYPOTHETICAL 12.5 KD PROTEIN.	sptrembl O74948	ND
769	519.1	Extended human secreted protein sequence, SEQ ID NO. 218.	geneseqp Y35969	ND
770	518.6	URIC ACID-XANTHINE PERMEASE (UAPA TRANSPORTER).	swissprot Q07307	ND
771	517.3	DIHYDROLIPOAMIDE ACETYLTRANSFERASE COMPONENT OF PYRUVATE DEHYDROGENASE COMPLEX. MITOCHONDRIAL PRECURSOR (EC 2.3.1.12) (E2) (PDC-E2) (MRP3).	swissprot P20285	ND
772	517.0	ATP CITRATE LYASE.	sptrembl O93988	ND
773	515.8	PUTATIVE ZINC-CONTAINING DEHYDROGENASE.	tremblnew CAB53146	ND
774	515.3	HYPOTHETICAL 25.7 KD	swissprot P38829	ND

		PROTEIN IN MSH1-EPT1 INTERGENIC REGION.		
775	514.4	PROBABLE CLATHRIN HEAVY CHAIN.	swissprot Q10161	ND
776	513.1	HYPOTHETICAL 143.7 KD PROTEIN C11D3.15 IN CHROMOSOME I.	swissprot Q10094	Amino acid transport and metabolism
777	513.0	TRANSCRIPTION FACTOR BTF3 HOMOLOG.	swissprot Q92371	ND
778	511.6	CROSS-PATHWAY CONTROL PROTEIN 1.	swissprot P11115	ND
779	511.2	HYPOTHETICAL 37.4 KD PROTEIN.	sptrembl O74907	ND
780	511.0	ACONITASE.	sptrembl O74699	Energy production and conversion
781	510.5	Yeast NPC1 protein orthologue.	geneseqp W88447	ND
782	510.4	HYPOTHETICAL 119.1 KD PROTEIN YPL009C.	sptrembl Q12532	Cell envelope biogenesis, outer membrane
783	509.3	HYPOTHETICAL 30.9 KD PROTEIN.	sptrembl O53327	ND
784	509.2	HYPOTHETICAL 33.3 KD PROTEIN.	sptrembl O43060	ND
785	508.7	30 KD HEAT SHOCK PROTEIN.	swissprot P19752	ND
786	508.5	Schizosaccharomyces pombe HRR25-like Hhp1+ protein.	geneseqp R76616	ND
787	508.4	HYPOTHETICAL PROTEIN C22G7.01C IN CHROMOSOME I (FRAGMENT).	swissnew Q09795	ND
788	506.9	CHROMOSOME XV READING FRAME ORF YOL060C.	sptrembl Q12296	ND
789	506.6	WD REPEAT-CONTAINING PROTEIN.	sptrembl O94289	ND
790	506.0	60S RIBOSOMAL PROTEIN L34-B.	swissprot P40525	ND
791	504.2	PHOSPHORIBOSYLGLYCIN AMIDE FORMYLTRANSFERASE (FRAGMENT).	sptrembl Q9Y7S7	ND
792	504.0	PUTATIVE AROMATIC AMINO ACID AMINOTRANSFERASE C56F4.03 (EC 2.6.1.-).	sptrembl O14192	Amino acid transport and metabolism
793	503.3	CALCIUM/CALMODULIN- DEPENDENT PROTEIN KINASE (EC 2.7.1.123).	swissprot O14408	ND
794	502.1	CYTOCHROME C OXIDASE POLYPEPTIDE IV PRECURSOR (EC 1.9.3.1).	swissprot P04037	ND
795	501.8	ALCOHOL.	swissprot P41747	ND

		DEHYDROGENASE I (EC 1.1.1.1).		
797	501.4	PHOSPHOGLYCERATE KINASE (EC 2.7.2.3).	swissprot P24590	ND
798	500.6	2-HYDROXYACID DEHYDROGENASE HOMOLOG (EC 1.1.1.-).	swissprot P30799	ND
799	500.3	PROTEASOME COMPONENT PUP3 (EC 3.4.99.46) (MACROPAIN SUBUNIT PUP3) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT PUP3).	swissprot P25451	Posttranslational modification, protein turnover, chaperones
800	500.2	PLASMID RECOMBINATION ENZYME (MOBILIZATION PROTEIN).	swissprot P03857	ND
801	499.4	UV EXCISION REPAIR PROTEIN RAD23 HOMOLOG.	sptrembl O74803	ND
802	499.0	CHROMOSOME XVI READING FRAME ORF YPL226W (CHROMOSOME XVI LEFT ARM (EU) DNA SEGMENT).	sptrembl Q08972	ND
803	498.3	RAN GTPASE ACTIVATING PROTEIN 1 (RNAI PROTEIN).	swissprot P41391	ND
804	497.6	60S RIBOSOMAL PROTEIN L36.	sptrembl O94658	ND
805	497.3	HYPOTHETICAL 46.4 KD PROTEIN C3A12.11C IN CHROMOSOME I.	swissprot P87126	ND
806	496.8	PUTATIVE SEPTIN.	tremblnew CAB61437	ND
807	496.7	PROBABLE INVOLVEMENT IN ERGOSTEROL BIOSYNTHESIS.	sptrembl O94512	ND
808	496.1	CYTOPLASMIC AMINOPEPTIDASE P.	sptrembl O54975	Amino acid transport and metabolism
809	495.5	NADH-UBIQUINONE OXIDOREDUCTASE 21 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-21KD) (CI-21KD).	swissprot P25711	ND
810	494.5	HYPOTHETICAL 31.5 KD PROTEIN C4F10.03C IN CHROMOSOME I.	sptrembl O36015	Cell division and chromosome partitioning
811	493.5	PISATIN DEMETHYLASE (EC 1.14.-.-) (CYTOCHROME P450 57A2).	swissprot P38364	ND
812	492.6	NITRATE REDUCTASE.	sptrembl Q92237	ND
813	492.1	LSM5 PROTEIN.	sptrembl Q9Y4Y9	ND

814	491.4	CHROMOSOME IV READING FRAME ORF YDL019C.	sptrembl Q12451	ND
815	491.2	10 KD HEAT SHOCK PROTEIN, MITOCHONDRIAL (HSP10) (10 KD CHAPERONIN).	swissprot O59804	ND
816	490.3	HYPOTHETICAL ZINC- TYPE ALCOHOL DEHYDROGENASE-LIKE PROTEIN IN GDH3-CNE1 INTERGENIC REGION.	swissprot P39714	ND
817	489.9	3-HYDROXYACYL-COA DEHYDROGENASE TYPE II (EC 1.1.1.35).	swissprot O02691	ND
818	489.6	HYPOTHETICAL 30.7 KD PROTEIN IN RVS161-ADP1 INTERGENIC REGION.	swissprot P25613	ND
819	489.4	ENOYL REDUCTASE.	sptrembl Q9Y7D0	ND
820	489.1	SHY1 PROTEIN.	swissprot P53266	ND
821	489.1	RIBONUCLEOPROTEIN RBM8.	sptrembl Q9Y5S9	ND
822	489.1	CYTOCHROME C OXIDASE POLYPEPTIDE VIB (EC 1.9.3.1) (AED).	swissprot Q01519	ND
823	488.8	THIOSULFATE SULFURTRANSFERASE.	sptrembl Q9ZPK0	Inorganic ion transport and metabolism
824	488.1	CONSERVED PROTEIN.	sptrembl O26459	Amino acid transport and metabolism
825	488.1	PUTATIVE STERIGMATOCYSTIN BIOSYNTHESIS PROTEIN STCT.	swissprot Q00717	ND
826	487.9	NONHISTONE CHROMOSOMAL PROTEIN 6B.	swissprot P11633	ND
827	487.7	NUCLEOSOME ASSEMBLY PROTEIN.	sptrembl O59797	ND
828	487.2	HYPOTHETICAL 55.5 KD PROTEIN C17A2.05 IN CHROMOSOME I.	sptrembl O13755	ND
829	487.2	HYPOTHETICAL 96.1 KD PROTEIN.	sptrembl Q9Y7N9	ND
830	486.7	CONSERVED PROTEIN.	sptrembl O26459	ND
831	486.0	PROBABLE NEGATIVE REGULATOR OF TRANSCRIPTION SUBUNIT C4G3.15C.	sptrembl P87240	ND
832	483.3	D9461.13P.	sptrembl Q04053	ND
833	483.2	SALA.	tremblnew AAF04312	ND
834	483.2	PROBABLE SODIUM CHANNEL PROTEIN	sptrembl O14234	ND

		C6F6.01.		
835	482.6	RNA-BINDING POST-TRANSCRIPTIONAL REGULATOR CSX1.	swissprot O13759	ND
836	482.2	HYPOTHETICAL OXIDOREDUCTASE IN RPB5-CDC28 INTERGENIC REGION (EC 1.-.-.-).	swissprot P38286	ND
837	481.4	HYPOTHETICAL 13.5 KD PROTEIN C24B11.09 IN CHROMOSOME 1.	swissprot Q09896	ND
838	481.4	RHO2 PROTEIN.	swissprot Q10133	ND
839	480.7	PUTATIVE ALCOHOL DEHYDROGENASE.	sptrembl O80944	ND
840	480.4	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE (EC 1.2.1.12) (GAPDH).	swissprot P32637	Carbohydrate transport and metabolism
841	480.0	TROPOMYOSIN.	swissprot Q02088	ND
842	479.3	60S RIBOSOMAL PROTEIN L22.	tremblnew CAB11194	ND
843	478.6	NONHISTONE CHROMOSOMAL PROTEIN 6B.	swissprot P11633	ND
844	478.6	HYPOTHETICAL 52.2 KD PROTEIN.	sptrembl Q12116	ND
845	478.2	DOLICHYL-PHOSPHATE-MANNOSE--PROTEIN MANNOSYLTRANSFERASE 2 (EC 2.4.1.109).	swissprot P31382	Posttranslational modification, protein turnover, chaperones
846	477.8	MAJOR ALLERGEN ASP F 2 PRECURSOR (ASP F II).	swissnew P79017	ND
847	477.7	CYTOCHROME C OXIDASE POLYPEPTIDE VI PRECURSOR (EC 1.9.3.1).	swissprot P00427	ND
848	476.8	PUTATIVE TRANSPORT PROTEIN.	tremblnew CAB52881	ND
849	476.7	UBIQUITIN-CONJUGATING ENZYME E2-24 KD (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN).	swissprot P28263	ND
850	476.3	HYPOTHETICAL 11.8 KD PROTEIN C1B3.02C IN CHROMOSOME 1.	swissprot O13868	ND
851	475.7	PROBABLE NICOTINATE PHOSPHORIBOSYLTRANSFERASE (EC 2.4.2.11) (NAPRTASE).	swissnew P39683	Coenzyme metabolism
852	474.6	CYTOCHROME B2 PRECURSOR (EC 1.1.2.3).	sptrembl Q9Y857	Energy production and conversion
853	474.2	CDC42.	sptrembl O94103	ND
854	471.5	PUTATIVE 125.2 KD MEMBRANE	swissprot P53751	ND

		GLYCOPROTEIN IN BIO3-HXT17 INTERGENIC REGION.		
855	470.3	VACUOLAR PROTEIN SORTING-ASSOCIATED PROTEIN VPS13.	swissprot Q07878	ND
856	470.1	HYPOTHETICAL PROTEIN (FRAGMENT).	tremblnew BAA87315	ND
857	469.2	HYPOTHETICAL 61.3 KD PROTEIN CY369.29.	sptrembl P71838	ND
858	468.8	TRYPTOPHAN SYNTHASE (EC 4.2.1.20).	swissnew P13228	ND
859	468.4	HYPOTHETICAL 23.6 KD PROTEIN.	sptrembl O14451	ND
860	467.6	BCDNA.GH07774.	sptrembl Q9Y127	ND
861	467.4	PROBABLE ATP-DEPENDENT PERMEASE PRECURSOR.	swissprot P25371	ND
862	467.4	DNA-DIRECTED RNA POLYMERASES I, II, AND III 8.3 KD POLYPEPTIDE (EC 2.7.7.6) (ABC10-BETA) (ABC8).	swissprot P22139	Transcription
863	467.0	METHIONYL-TRNA SYNTHETASE.	sptrembl O13634	ND
864	466.6	DOLICHYL-PHOSPHATE-MANNOSE--PROTEIN MANNOSYLTRANSFERASE 2 (EC 2.4.1.109).	swissprot P31382	Posttranslational modification, protein turnover, chaperones
865	466.6	CUTINASE G-BOX BINDING PROTEIN.	sptrembl Q00878	ND
866	466.6	PUTATIVE VANADATE RESISTANCE PROTEIN.	tremblnew CAB59698	ND
867	466.3	HIGH AFFINITY METHIONINE PERMEASE.	swissprot P50276	ND
868	465.9	PUTATIVE SMALL NUCLEAR RIBONUCLEOPROTEIN E.	tremblnew CAB59808	Transcription
869	465.2	HYPOTHETICAL 35.0 KD PROTEIN IN BGL2-ZUO1 INTERGENIC REGION.	swissprot P53337	ND
870	465.1	HYPOTHETICAL 79.9 KD PROTEIN C3D6.04C IN CHROMOSOME II.	sptrembl P87169	ND
871	464.6	BROADLY SELECTIVE SODIUM/NUCLEOSIDE TRANSPORTER HFCNT.	tremblnew AAD52151	ND
872	464.3	PUTATIVE SYNTAXIN.	tremblnew CAB58411	ND
873	463.9	HYPOTHETICAL 41.8 KD PROTEIN.	sptrembl O59715	ND
874	462.7	WD-REPEAT PROTEIN POP2 (PROTEOLYSIS FACTOR SUD1).	swissprot O14170	ND
875	461.4	LONG-CHAIN-FATTY-ACID--COA LIGASE 1 (EC	swissprot P30624	Lipid metabolism

		6.2.1.3) (LONG-CHAIN ACYL-COA SYNTHETASE 1) (FATTY ACID ACTIVATOR 1).		
876	460.7	BING4.	sptrembl Q9Z0H1	ND
877	460.6	40S RIBOSOMAL PROTEIN S28 (S33).	swissprot Q10421	Translation, ribosomal structure and biogenesis
878	460.4	HISTONE H1.	tremblnew AAF16011	ND
879	459.4	P21 PROTEIN.	sptrembl Q11118	ND
880	458.9	INORGANIC PHOSPHATE TRANSPORTER PHO88.	swissprot P38264	ND
881	457.7	EUKARYOTIC TRANSLATION INITIATION FACTOR 4E (EIF-4L) (EIF4E) (MRNA CAP-BINDING PROTEIN) (EIF-4F 25 KD SUBUNIT).	swissprot P78954	ND
882	457.7	49 KDA ZINC FINGER PROTEIN.	sptrembl Q9Z326	ND
883	457.4	PROTEIN KINASE C-LIKE (EC 2.7.1.-).	swissprot Q99014	ND
884	457.2	MBF1 PROTEIN (ORF YOR298C-A).	sptrembl O14467	ND
885	457.0	Exon trap L48741.	geneseqp W46753	Carbohydrate transport and metabolism
886	456.9	CHROMOSOME IV READING FRAME ORF YDL072C.	sptrembl Q07451	ND
887	456.7	Phaffia derived glyceraldehyde-3-phosphate dehydrogenase PRcDNA64.	geneseqp W22489	Translation, ribosomal structure and biogenesis
888	456.7	60S RIBOSOMAL PROTEIN L35.	swissprot P42766	ND
889	456.2	TRANSCRIPTION INITIATION FACTOR IIE. BETA SUBUNIT (TFIIE- BETA) (TRANSCRIPTION FACTOR A SMALL SUBUNIT) (FACTOR A 43 KD SUBUNIT).	swissprot P36145	ND
890	456.0	ALPHA-SOLUBLE NSF ATTACHMENT PROTEIN (SNAP-ALPHA)	swissnew P54920	ND
891	455.9	SMALL ZINC FINGER PROTEIN TIM8.	sptrembl Q9Y8C0	ND
892	455.1	26S PROTEASE REGULATORY SUBUNIT 4 HOMOLOG (MTS2 PROTEIN).	swissprot P36612	Posttranslational modification. protein turnover, chaperones
893	455.1	TOXIN PUMP.	sptrembl Q00357	ND
894	454.8	DEHYDROGENASE.	sptrembl O34788	ND

895	454.7	UVSB PI-3 KINASE.	tremblnew AAD54313	ND
896	453.2	PROBABLE T-COMPLEX PROTEIN 1, THETA SUBUNIT.	sptrembl O74816	Posttranslational modification, protein turnover, chaperones
897	453.2	UBIQUITIN-CONJUGATING ENZYME E2-21 KD (EC 6.3.2.19) (UBIQUITIN- PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN) (PEROXIN-4).	swissprot P29340	ND
898	453.0	DNA-DIRECTED RNA POLYMERASE SUBUNIT.	sptrembl O74825	ND
899	452.3	TAMEGOLOH.	sptrembl O42346	ND
900	451.4	HYPOTHETICAL 55.8 KD PROTEIN.	tremblnew CAB63552	ND
901	450.7	HYPOTHETICAL 38.5 KD PROTEIN.	sptrembl O74959	ND
902	450.6	PUTATIVE ENOLASE- PHOSPHATASE.	tremblnew CAB55632	ND
903	449.4	Mortierella alpina cytochrome b5.	geneseqp W22848	ND
904	448.6	CARBOXYVINYL- CARBOXYPHOSPHONATE PHOSPHORYLMUTASE (EC 2.7.8.23) (CARBOXYPHOSPHONOEN- OLPYRUVATE PHOSPHONOMUTASE) (CPEP PHOSPHONOMUTASE).	swissprot P11435	ND
905	448.2	Ester hydrolase protein encoded by rec 780-m165r210 gene.	geneseqp R44613	ND
906	447.3	S-ADENOSYLMETHIONINE DECARBOXYLASE (EC 4.1.1.50) (FRAGMENT).	sptrembl Q9Y8A3	ND
908	446.4	RASP F 9 (FRAGMENT).	sptrembl O42800	ND
909	446.1	CHROMOSOME XVI READING FRAME ORF YPL199C.	sptrembl Q08954	ND
910	446.1	VACUOLAR PROTEIN SORTING-ASSOCIATED PROTEIN VPS35.	swissprot P34110	ND
911	445.9	PROFILIN..	tremblnew CAB38578	ND
912	445.0	HET-C PROTEIN.	tremblnew AAD54275	ND
913	444.8	HYPOTHETICAL 28.0 KD PROTEIN C13C5.04 IN CHROMOSOME I.	swissprot Q09686	ND
914	444.6	ATP SYNTHASE F CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissprot Q06405	ND
915	444.3	IONA	sptrembl Q95024	ND

		(SODIUM/POTASSIUM-TRANSPORTING ATPASE) (FRAGMENT).		
916	444.2	CHITIN SYNTHASE 4 (EC 2.4.1.16) (CHITIN-UDP ACETYL-GLUCOSAMINYL TRANSFERASE 4) (CLASS-IV CHITIN SYNTHASE 4).	swissprot Q01285	ND
917	443.4	SPP30.	sptrembl Q9XFA1	ND
918	442.9	UBE-1A.	tremblnew BAA82656	ND
919	442.1	SIMILAR TO DABA DECARBOXYLASE.	sptrembl Q9Z3R1	ND
920	441.9	VIPI PROTEIN (P53 ANTIGEN HOMOLOG).	sptrembl P87216	ND
921	441.5	HYPOTHETICAL PROTEIN (FRAGMENT).	tremblnew BAA87313	ND
922	441.1	GENERAL AMINO ACID PERMEASE AGP2.	swissprot P38090	Amino acid transport and metabolism
923	441.0	PUTATIVE N-ACETYLGLUCOSAMINE-6-PHOSPHATE DEACETYLASE (EC 3.5.1.25) (GLCNAC 6-P DEACETYLASE).	swissprot P34480	ND
924	440.0	PUTATIVE TYPE III ALCOHOL DEHYDROGENASE.	sptrembl Q94532	ND
925	439.3	HYPOTHETICAL 33.6 KD PROTEIN.	sptrembl O53363	ND
926	439.3	Yeast MEC3 protein sequence.	geneseqp W73895	Cell motility and secretion
927	438.1	HYPOTHETICAL 76.3 KD ZINC FINGER PROTEIN IN KTR5-UME3 INTERGENIC REGION.	swissprot P53968	ND
928	438.1	AMINO ACID PERMEASE.	sptrembl P87251	ND
929	437.9	STR1 (suppressor of telomeric repression-1) protein.	geneseqp R95601	ND
930	436.9	PUTATIVE CELL WALL PROTEIN.	sptrembl O74708	ND
931	435.9	TRANSCRIPTION INITIATION FACTOR TFIID 55 KD SUBUNIT (TAFII-55).	sptrembl O13701	ND
932	435.8	HYPOTHETICAL 38.3 KD PROTEIN IN CWLA-CISA INTERGENIC REGION.	swissprot P45946	ND
933	435.7	O-METHYLTRANSFERASE.	sptrembl O67476	ND
934	435.5	ARG-6 PROTEIN PRECURSOR [CONTAINS. N-ACETYL-GAMMA-GLUTAMYL-PHOSPHATE REDUCTASE (EC 1.2.1.38) (N-ACETYL-GLUTAMATE	swissnew P54898	ND

		SEMIALDEHYDE DEHYDROGENASE) (NAGSA DEHYDROGENASE); ACETYLGLUTAMATE KINASE (EC 2.7.2.8) (NAG KINASE) (AGK) (N- ACETYL-L-GLUTAMATE 5- PHOSPHOTRANSFERASE)].		
935	435.5	IMPORTIN ALPHA SUBUNIT.	sptrembl O94374	ND
936	435.3	HYPOTHETICAL 46.5 KD PROTEIN.	sptrembl O07730	ND
937	435.2	UBIQUITIN-CONJUGATING ENZYME E2-16 KD.	tremblnew CAB54826	ND
938	434.3	HYPOTHETICAL 34.8 KD PROTEIN C4H3.04C IN CHROMOSOME I.	swissprot Q10212	ND
939	433.8	F26A3.2 PROTEIN.	sptrembl Q93594	Transcription
940	432.9	DYNAMIN-RELATED PROTEIN.	sptrembl P87320	ND
941	432.8	HYPOTHETICAL 42.7 KD PROTEIN (FRAGMENT).	tremblnew CAB61449	ND
942	431.3	CHROMOSOME XV READING FRAME ORF YOL119C.	sptrembl Q08268	ND
943	429.4	Aminopeptidase.	geneseqp W05589	ND
944	429.4	Phosphoglycerate kinase.	geneseqp R22095	ND
945	428.9	ADENYLYL CYCLASE.	tremblnew AAD50121	ND
946	426.5	UBIQUITIN CARBOXYL- TERMINAL HYDROLASE (EC 3.1.2.15).	tremblnew AAF01440	ND
947	426.3	HYPOTHETICAL 46.7 KD PROTEIN C19G10.05 IN CHROMOSOME I.	swissprot Q10335	ND
948	426.3	RIBOSOMAL PROTEIN S30.	sptrembl O14314	ND
949	426.2	GLUCAN 1,3-BETA- GLUCOSIDASE PRECURSOR (EC 3.2.1.58) (EXO-1,3-BETA- GLUCANASE) (GP29).	swissprot P15703	ND
950	424.9	RIBULOSE-PHOSPHATE 3- EPIMERASE (EC 5.1.3.1) (PENTOSE-5-PHOSPHATE 3- EPIMERASE) (PPE) (RPF)	swissnew P46969	Carbohydrate transport and metabolism
951	423.9	CHROMOSOME XV READING FRAME ORF YOR161C.	sptrembl Q12412	ND
952	422.7	PYRUVATE DEHYDROGENASE E1 COMPONENT BETA SUBUNIT, MITOCHONDRIAL PRECURSOR (EC 1.2.4.1)	swissprot Q09171	ND

		(PDHE1-B).		
953	422.5	SPLICING FACTOR U2AF 59 KD SUBUNIT.	tremblnew CAB46760	ND
954	421.2	ASPARTATE AMINOTRANSFERASE, MITOCHONDRIAL PRECURSOR (EC 2.6.1.1) (TRANSAMINASE A) (GLUTAMATE OXALOACETATE TRANSAMINASE-2).	swissprot P05202	ND
955	420.9	ESTERASE HDE.	sptrembl Q9XDR4	Lipid metabolism
956	420.8	ACETYL-COENZYME A SYNTHETASE (EC 6.2.1.1) (ACETATE--COA LIGASE) (ACYL- ACTIVATING ENZYME).	swissprot P16928	ND
957	420.1	6-PHOSPHOGLUCONATE DEHYDROGENASE, DECARBOXYLATING.	tremblnew CAA22536	Carbohydrate transport and metabolism
958	419.9	60S RIBOSOMAL PROTEIN L29 (YL43).	swissprot P05747	ND
959	418.4	PUTATIVE NUCLEOPORIN.	tremblnew CAB63497	ND
960	417.7	60S RIBOSOMAL PROTEIN L39 (YL36).	swissprot P05767	Translation, ribosomal structure and biogenesis
961	417.0	PUTATIVE CELL WALL PROTEIN.	sptrembl O74708	ND
962	416.6	THIAMINE BIOSYNTHETIC BIFUNCTIONAL ENZYME [INCLUDES: THIAMINE-PHOSPHATE PYROPHOSPHORYLASE (EC 2.5.1.3) (TMP PYROPHOSPHORYLASE) (TMP- PPASE); HYDROXYETHYLTHIAZOLE KINASE (EC 2.7.1.50) (4-METHYL-5-BETA-HYDROXYETHYLTHIAZOLE KINASE) (THZ KINASE) (TH KINASE)].	swissprot P41835	ND
963	415.6	NUCLEASE.	sptrembl O60168	ND
964	415.3	HYPOTHETICAL 41.9 KD PROTEIN IN HAC1-CAK1 INTERGENIC REGION.	swissprot P43567	Amino acid transport and metabolism
965	415.0	HYPOTHETICAL 42.5 KD PROTEIN.	sptrembl O53311	ND
966	414.8	CELLULAR NUCLEIC ACID BINDING PROTEIN HOMOLOG.	swissprot P36627	ND
967	414.2	PROBABLE ALPHA-GLUCOSIDASE YIL172C/YJL221C (EC	swissprot P40439	Carbohydrate transport and metabolism

		3.2.1.20) (MALTASE).		
968	413.0	PROTEIN KINASE (FRAGMENT).	sptrembl Q41384	ND
969	413.0	TRNA SPLICING PROTEIN SPL1.	swissprot P87185	Amino acid transport and metabolism
970	412.7	CPC3 PROTEIN.	sptrembl O74297	ND
971	412.6	ADRENOLEUKODYSTROPH Y PROTEIN (ALDP).	swissprot P33897	ND
972	412.5	CYTOCHROME B2 PRECURSOR (EC 1.1.2.3) (L- LACTATE DEHYDROGENASE (CYTOCHROME)) (L- LACTATE FERRICYTOCHROME C OXIDOREDUCTASE) (L- LCR).	swissprot P00175	ND
973	412.4	GLYCINE-RICH RNA- BINDING PROTEIN (FRAGMENT).	sptrembl Q39105	ND
974	410.8	HYPOTHETICAL 8.9 KD PROTEIN.	tremblnew CAB52163	ND
975	410.4	HYPOTHETICAL 60.1 KD PROTEIN C23C11.06C IN CHROMOSOME I.	swissprot O13912	ND
976	410.2	OXIDOREDUCTASE, SHORT CHAIN DEHYDROGENASE/REDUC TASE FAMILY.	sptrembl Q9WYD3	ND
977	409.5	F-ACTIN CAPPING PROTEIN ALPHA-2 SUBUNIT (CAPZ 36/32) (BETA-ACTININ SUBUNIT I).	swissprot P28497	ND
978	409.0	RNA BINDING PROTEIN - PUTATIVE PRE MRNA SPLICING FACTOR.	sptrembl O74919	ND
979	408.7	PUTATIVE DNA-3- METHYLADENINE GLYCOSIDASE (EC 3.2.2.20).	tremblnew CAB42917	ND
980	408.1	ALP11 PROTEIN.	swissprot Q10235	ND
981	407.9	SMALL ZINC FINGER-LIKE PROTEIN.	sptrembl Q9Y8A7	ND
982	407.8	PHOSPHATIDYLINOSITOL 4-KINASE STT4 (EC 2.7.1.67) (PI4-KINASE) (PTDINS-4- KINASE).	swissprot P37297	ND
983	406.3	F-ACTIN CAPPING PROTEIN BETA SUBUNIT (CAPZ).	swissprot P47756	ND
984	406.1	MITOCHONDRIAL RESPIRATORY CHAIN COMPLEXES ASSEMBLY PROTEIN AFG3 (EC 3.4.24.-) (TAT-BINDING HOMOLOG	swissprot P39925	Posttranslational modification, protein turnover, chaperones

		10).		
985	405.7	HYPOTHETICAL OXIDOREDUCTASE C23D3.11 IN CHROMOSOME I (EC 1.-.-.-).	swissnew Q09851	ND
986	405.3	SCD2 PROTEIN.	swissprot P40996	ND
987	405.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sptrembl Q48361	ND
988	404.8	FOLYLPOLYGLUTAMATE SYNTHETASE.	sptrembl Q9Y893	Coenzyme metabolism
989	404.4	CLOCK-CONTROLLED GENE-6 PROTEIN.	sptrembl O74694	ND
990	404.3	36.7 KD PROTEIN IN CBR5- NOT3 INTERGENIC REGION.	swissprot P40531	ND
991	404.1	OLIGO-1,6-GLUCOSIDASE (EC 3.2.1.10) (SUCRASE- ISOMALTASE) (LIMIT DEXTRINASE) (ISOMALTASE) (DEXTRIN 6-ALPHA-D- GLUCANOHYDROLASE).	swissprot P29094	ND
992	404.0	DNA-DIRECTED RNA POLYMERASE II 14.2 KD POLYPEPTIDE (EC 2.7.7.6) (B12.6).	swissprot P27999	ND
993	403.4	C. albicans antigenic protein 4.	geneseq Y06928	ND
994	401.8	MULTIDRUG RESISTANCE- ASSOCIATED PROTEIN 3.	swissprot O88563	ND
995	401.8	COP9 COMPLEX SUBUNIT 4.	sptrembl Q9Y677	ND
996	401.1	PEROXISOMAL MEMBRANE PROTEIN PER10 (PEROXIN-14).	swissprot P78723	ND
997	400.6	QUINONE OXIDOREDUCTASE (EC 1.6.5.5) (NADPH:QUINONE REDUCTASE).	swissprot P43903	ND
998	400.3	HYPOTHETICAL 23.4 KD PROTEIN.	sptrembl Q03201	Translation, ribosomal structure and biogenesis
999	399.5	40S RIBOSOMAL PROTEIN S25 PRECURSOR (S31) (YS23) (RP45).	swissprot P07282	ND
1000	399.0	HYPOTHETICAL 49.4 KD PROTEIN.	sptrembl P71984	Energy production and conversion
1001	398.7	40S RIBOSOMAL PROTEIN S29-B (S36) (YS29).	swissprot P41058	Translation, ribosomal structure and biogenesis
1002	398.4	PUTATIVE MITOCHONDRIAL CARRIER YEL006W.	swissprot P39953	ND
1003	398.1	PUTATIVE ATP-	sptrembl O13792	ND

		DEPENDENT RNA HELICASE C17G6.14C.		
1004	397.7	ABC TRANSPORTER PROTEIN ATRC.	sptrembl Q9Y748	ND
1005	395.7	VACUOLAR PROTEIN SORTING-ASSOCIATED PROTEIN VPS5.	swissprot Q92331	ND
1006	395.6	CHORISMATE SYNTHASE (EC 4.6.1.4) (5- ENOLPYRUVYLSHIKIMATE -3-PHOSPHATE PHOSPHOLYASE).	swissprot Q12640	ND
1007	395.1	PUTATIVE METAL TRANSPORTER.	sptrembl O94639	ND
1008	393.8	PUTATIVE MICROSOMAL DIPEPTIDASE PRECURSOR (EC 3.4.13.19) (MDP).	sptrembl O14124	ND
1009	393.0	INTRACELLULAR METALLOPROTEINASE MEPB.	sptrembl P97996	ND
1010	392.8	HYPOTHETICAL 52.4 KD PROTEIN IN ATP1-ROX3 INTERGENIC REGION PRECURSOR.	swissprot P38169	Coenzyme metabolism
1011	392.7	CODED FOR BY C. ELEGANS CDNA YK20F6.3.	sptrembl Q18599	ND
1012	391.5	SEPTIN HOMOLOG SPN2.	tremblnew CAB57440	ND
1013	391.4	TREHALASE PRECURSOR (EC 3.2.1.28) (ALPHA,ALPHA- TREHALASE) (ALPHA,ALPHA- TREHALOSE GLUCOHYDROLASE).	swissprot P32359	ND
1014	391.1	PUTATIVE PROTEIN TRANSPORT PROTEIN SEC61 GAMMA SUBUNIT.	swissprot Q09827	ND
1015	390.2	H(+)/MONOSACCHARIDE COTRANSPORTER.	sptrembl O13411	ND
1016	390.2	HYPOTHETICAL 14.5 KD PROTEIN C6F12.04 IN CHROMOSOME I.	sptrembl O14223	ND
1017	390.1	PUTATIVE SNRNP SM-LIKE PROTEIN.	sptrembl Q9Y7M4	ND
1018	387.3	CHITINASE.	tremblnew BAA88380	ND
1019	387.3	NONHISTONE CHROMOSOMAL PROTEIN 6B.	swissprot P11633	ND
1020	387.2	Y48B6A.11 PROTEIN.	tremblnew CAB54451	ND
1021	386.7	CHROMOSOME XV READING FRAME ORF YOR286W.	sptrembl Q08742	ND
1022	386.0	PROBABLE TRANSPORTER	swissprot P25621	ND

		FEN2.		
1023	385.5	3-KETOACYL-COA THIOLASE B, PEROXISOMAL PRECURSOR (EC 2.3.1.16) (BETA- KETOTHIOLASE B) (ACETYL-COA ACYLTRANSFERASE B) (PEROXISOMAL 3- OXOACYL- COA THIOLASE B) (THIOLASE IB).	swissnew P33291	ND
1024	385.4	NON-FUNCTIONAL FOLATE BINDING PROTEIN.	sptrembl O14597	ND
1025	385.2	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl O74741	ND
1026	384.4	60S RIBOSOMAL PROTEIN L28.	tremblnew CAA22600	ND
1027	384.2	HYPOTHETICAL 54.7 KD PROTEIN.	sptrembl Q9Y827	ND
1028	384.2	PUTATIVE MITOCHONDRIAL CARRIER C8C9.12C.	sptrembl O14281	ND
1029	384.0	CARNITINE RACEMASE HOMOLOG.	sptrembl O23300	ND
1030	383.9	STAM-LIKE PROTEIN, VHS DOMAIN CONTAINING, PUTATIVE SIGNAL TRANSDUCING ADAPTOR.	sptrembl O74749	ND
1031	383.5	INACTIVE ISOCITRATE LYASE (EC 4.1.3.1) (ISOCITRASE) (ISOCITRATASE) (ICL).	swissprot Q12031	ND
1032	383.5	HYPOTHETICAL 21.4 KD PROTEIN C19A8.14 IN CHROMOSOME I.	sptrembl O13830	ND
1033	383.0	MANNOSE-6-PHOSPHATE ISOMERASE (EC 5.3.1.8) (PHOSPHOMANNOSE ISOMERASE) (PMI) (PHOSPHOHEXOMUTASE).	swissprot P29951	ND
1034	382.9	HYPOTHETICAL 36.9 KD PROTEIN C21E11.07 IN CHROMOSOME I.	swissprot Q09929	ND
1035	381.6	SERYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.11) (SERINE--TRNA LIGASE) (SERRS).	swissprot O14018	ND
1036	381.3	YMC1P.	sptrembl Q12002	ND
1037	381.0	PXP-18.	tremblnew BAA85152	ND
1038	380.7	PUTATIVE MAJOR FACILITATOR FAMILY MULTI-DRUG RESISTANCE PROTEIN.	sptrembl O94343	ND
1039	380.6	SIMILAR TO ACYL-COA	sptrembl Q19781	ND

		THIOESTERASE. NCBI GI: 1213545.		
1040	380.5	CGI-83 PROTEIN.	sptrembl Q9Y392	ND
1041	380.4	SIMILARITY TO S. CEREVISIAE HYPOTHETICAL PROTEIN L8083.10.	sptrembl Q05515	ND
1042	379.7	DTDP-4-KETO-6-DEOXY-D-GLUCOSE 4-REDUCTASE.	tremblnew CAB56837	ND
1043	379.5	URACIL PHOSPHORIBOSYLTRANSFERASE (EC 2.4.2.9) (UMP PYROPHOSPHORYLASE) (UPRTASE).	swissnew P18562	ND
1044	377.9	WCOR719.	sptrembl Q43655	ND
1045	377.6	HYPOTHETICAL 117.2 KD PROTEIN IN EXO70-ARP4 INTERGENIC REGION.	swissprot P47029	ND
1046	377.1	F54C4.2 PROTEIN.	tremblnew AAC68775	ND
1047	376.6	XAA-PRO DIPEPTIDASE (EC 3.4.13.9) (X-PRO DIPEPTIDASE) (PROLINE DIPEPTIDASE) (PROLIDASE) (IMIDODIPEPTIDASE) (PEPTIDASE 4).	swissprot Q11136	ND
1048	375.4	60S RIBOSOMAL PROTEIN L6, MITOCHONDRIAL PRECURSOR (YML6).	swissprot P32904	ND
1049	375.3	GLUCOSE TRANSPORTER TYPE 3, BRAIN.	swissprot P11169	ND
1050	375.0	Human Ras protein RAPR-1.	geneseqp Y29666	ND
1051	374.8	UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX 14 KD PROTEIN (EC 1.10.2.2) (COMPLEX III SUBUNIT VII).	swissprot P49345	ND
1052	374.7	ATGRP2 (GLYCINE-RICH RNA-BINDING PROTEIN).	sptrembl Q41988	ND
1053	374.4	Fragment of human secreted protein encoded by gene 3.	geneseqp W78239	ND
1054	374.3	HYPOTHETICAL 25.7 KD PROTEIN.	sptrembl Q9Y7M6	ND
1055	374.1	SIMILAR TO RAT SYNAPTIC GLYCOPROTEIN SC2.	sptrembl Q94511	ND
1056	373.8	UVSB PI-3 KINASE.	tremblnew AAD54313	ND
1057	373.8	CHROMOSOME XV READING FRAME ORF YOR052C.	sptrembl Q08422	ND
1058	373.3	TRANSLATIONAL ACTIVATOR GCN1.	swissprot P33892	ND
1059	373.1	HYPOTHETICAL 43.9 KD	tremblnew	ND

		PROTEIN.	CAB62419	
1060	372.9	HYPOTHETICAL 34.0 KD PROTEIN IN CTF13-YPK2 INTERGENIC REGION.	swissprot Q03161	ND
1061	372.7	MITOCHONDRIAL PROCESSING PEPTIDASE BETA SUBUNIT PRECURSOR (EC 3.4.24.64) (BETA-MPP) (UBIQUINOL- CYTOCHROME C REDUCTASE COMPLEX CORE PROTEIN I) (EC 1.10.2.2).	swissprot P11913	ND
1062	372.3	PUTATIVE SUGAR TRANSPORTER.	sptrembl O48537	ND
1063	371.2	SHORT-CHAIN ALCOHOL DEHYDROGENASE-LIKE PROTEIN.	tremblnew CAB63154	ND
1064	371.2	Protein encoded by open reading frame 3 (ORF-3, dszC) of dsz cluster.	geneseqp W97051	ND
1065	369.4	CHROMOSOME XV READING FRAME ORF YOL092W.	sptrembl Q12010	ND
1066	369.3	DNASE1 PROTEIN.	tremblnew CAB63906	ND
1067	369.1	PUTATIVE STEROID BINDING PROTEIN.	tremblnew AAD23019	ND
1068	368.8	Human dUTPase (mitochondrial form).	geneseqp W30281	ND
1069	368.5	CHIP6.	sptrembl O93841	ND
1070	368.4	CHROMOSOME XV READING FRAME ORF YOR021C.	sptrembl Q12314	ND
1071	368.3	HYPOTHETICAL 29.3 KD PROTEIN C31G5.18C IN CHROMOSOME I.	sptrembl O14113	ND
1072	368.3	HYPOTHETICAL 90.1 KD PROTEIN C23H4.15 IN CHROMOSOME I.	sptrembl O13956	ND
1073	367.9	CYTOCHROME C HEME LYASE (EC 4.4.1.17) (CCHL) (HOLOCYTOCHROME-C SYNTHASE).	swissnew P14187	ND
1074	367.8	PROBABLE DOLICHYL- PHOSPHATE-MANNOSE-- PROTEIN MANNOsyl TRANSFERASE C16C6.09 (EC 2.4.1.109).	swissprot O42933	ND
1075	367.8	HYPOTHETICAL 187.1 KD PROTEIN IN OGG1-CNA2 INTERGENIC REGION.	swissnew Q04958	ND
1076	367.7	HYPOTHETICAL 38.5 KD PROTEIN.	sptrembl O74959	ND
1077	367.6	PROBABLE GLUCAN 1,3- BETA-GLUCOSIDASE	swissprot Q10444	ND

		PRECURSOR (EC 3.2.1.58) (EXO-1,3-BETA- GLUCANASE).		
1078	367.5	ANTHRANILATE PHOSPHORIBOSYLTRANSF ERASE (EC 2.4.2.18).	swissnew O60122	ND
1079	367.2	HYPOTHETICAL 10.4 KD PROTEIN.	sptrembl O43002	ND
1080	367.2	HYPOTHETICAL 27.0 KD PROTEIN C12B10.13 IN CHROMOSOME I.	swissprot Q10446	ND
1081	366.7	HYPOTHETICAL 33.9 KD PROTEIN C14C4.12C IN CHROMOSOME I.	swissprot O13719	ND
1082	366.3	PDI RELATED PROTEIN A.	sptrembl O93914	ND
1083	366.3	DOLICHYL- DIPHOSPHOOLIGOSACCHA RIDE--PROTEIN (OLIGOSACCHARYLTRANS FERASE).	sptrembl O59866	ND
1084	366.2	HYPOTHETICAL 24.8 KD PROTEIN.	tremblnew CAB54811	ND
1085	366.2	PHGA PROTEIN.	sptrembl O96904	ND
1086	366.0	HYPOTHETICAL 69.0 KD PROTEIN IN PPX1-RPS4B INTERGENIC REGION.	swissprot P38887	Nucleotide transport
1087	365.8	RIBOSOMAL PROTEIN S5 (FRAGMENT).	tremblnew BAA25815	ND
1088	365.7	HYPOTHETICAL 31.6 KD PROTEIN.	sptrembl O94465	ND
1089	365.7	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
1090	365.7	HYPOTHETICAL 27.7 KD PROTEIN IN CPT1-SPC98 INTERGENIC REGION.	swissprot P53915	ND
1091	365.5	CURVED DNA-BINDING PROTEIN (42 KD PROTEIN).	swissprot Q09184	ND
1092	364.6	ACETATE KINASE (EC 2.7.2.1) (ACFTOKINASE).	swissnew Q59331	ND
1093	363.9	NADH-UBIQUINONE OXIDOREDUCTASE 29.9 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-29.9KD) (CI- 29.9KD)	swissprot P24919	ND
1094	363.8	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
1096	363.4	T22K18.2 PROTEIN.	tremblnew AAF04409	ND
1097	363.4	FRUCTOSYL AMINE:OXYGEN OXIDOREDUCTASE.	sptrembl O42629	ND
1098	363.1	HYPOTHETICAL 55.5 KD PROTEIN.	sptrembl O82645	ND
1099	361.7	UBIQUITIN-CONJUGATING	swissprot P40984	ND

		ENZYME E2-18 KD (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE HUS5) (UBIQUITIN CARRIER PROTEIN HUS5).		
1100	360.9	SERINE/THREONINE-PROTEIN KINASE IRE1 PRECURSOR (EC 2.7.1.-).	swissprot P32361	ND
1101	360.5	HYPOTHETICAL 61.8 KD PEPTIDASE IN MPR1-GCN20 INTERGENIC REGION (EC 3.4.-.-).	swissprot P43590	ND
1102	360.2	MANNOSE-1-PHOSPHATE GUANYL TRANSFERASE (EC 2.7.7.13) (MPG1 TRANSFERASE) (ATP-MANNOSE-1-PHOSPHATE GUANYLYLTRANSFERASE)	sptrembl O74624	ND
1103	359.6	ERP6 PROTEIN PRECURSOR.	swissprot P53198	ND
1104	359.2	HYPOTHETICAL 26.7 KD PROTEIN C3G9.15C IN CHROMOSOME I.	sptrembl O42877	ND
1105	358.7	PUTATIVE GTP CYCLOHYDROLASE	tremblnew CAB65619	ND
1106	358.3	HYPOTHETICAL 77.8 KD PROTEIN.	sptrembl O74828	ND
1107	358.1	CALCIUM/PROTON EXCHANGER.	sptrembl O59940	ND
1108	358.0	GLUCOSIDASE 558 aa	pdb 1UOK	ND
1109	357.9	JM5 PROTEIN.	sptrembl Q9Y484	ND
1110	357.7	CKS1 protein.	geneseqp W01557	ND
1111	357.7	MDM10 GENE.	sptrembl O13498	ND
1112	356.7	NADPH QUINONE OXIDOREDUCTASE, PUTATIVE.	tremblnew AAF12387	ND
1113	356.4	PUTATIVE SPINDLE POLE BODY ASSOCIATED PROTEIN.	sptrembl Q9Y705	ND
1114	355.8	CHROMOSOME XV READING FRAME ORF YOR306C.	sptrembl Q08777	ND
1115	354.7	PUTATIVE PROTEASE.	sptrembl Q9X7U3	ND
1116	354.7	HYPOTHETICAL PROTEIN	sptrembl Q12486	ND
1117	354.6	PUTATIVE SIGNAL TRANSDUCTION PROTEIN.	sptrembl O94321	ND
1118	354.3	60S RIBOSOMAL PROTEIN L16, MITOCHONDRIAL PRECURSOR (YML47).	swissprot P38064	ND
1119	354.1	ELONGATION FACTOR G 1, MITOCHONDRIAL PRECURSOR (MEF-G-1).	swissprot P25039	ND
1120	353.7	HYPOTHETICAL 183.1 KD	sptrembl O14148	ND

		HELICASE C3G6.12 IN CHROMOSOME I.		
1121	353.1	FOLYLPOLYGLUTAMATE SYNTHETASE (EC 6.3.2.17).	sptrembl O13492	ND
1122	352.4	DLTE PROTEIN.	swissprot P39577	ND
1123	351.8	PSI-7 PROTEIN.	sptrembl O13444	ND
1124	351.7	W02A2.5 PROTEIN.	sptrembl Q9XUB4	ND
1125	351.6	HYPOTHETICAL ZINC-TYPE ALCOHOL DEHYDROGENASE-LIKE PROTEIN IN GDH3-CNE1 INTERGENIC REGION.	swissprot P39714	ND
1126	351.3	CELL DIFFERENTIATION PROTEIN RCD1.	sptrembl Q92368	ND
1127	351.1	CONSERVED HYPOTHETICAL NIFU-LIKE PROTEIN.	tremblnew CAB52604	ND
1128	351.1	TRANSLATION INITIATION FACTOR EIF-2B ALPHA SUBUNIT.	tremblnew CAB57849	ND
1129	351.0	26S PROTEASE REGULATORY SUBUNIT 6A (TAT-BINDING PROTEIN HOMOLOG 1) (TBP-1).	swissprot P33297	ND
1130	350.5	PUTATIVE 26S PROTEASOME SUBUNIT.	tremblnew CAB63792	ND
1131	350.4	HYPOTHETICAL 26.5 KD PROTEIN C24B11.05 IN CHROMOSOME I.	swissprot Q09893	ND
1132	350.3	HYPOTHETICAL 83.0 KD PROTEIN IN ATP1-ROX3 INTERGENIC REGION.	swissprot P38170	ND
1133	349.8	PUTATIVE 60S ACIDIC RIBOSOMAL PROTEIN.	tremblnew CAB59805	ND
1134	349.8	DJ747H23.3 (N-ACETYLGLUCOSAMINE-PHOSPHATE MUTASE) (FRAGMENT).	tremblnew CAB52346	ND
1135	349.7	ACETOACETYL-COA SYNTHETASE (EC 6.2.1.16).	sptrembl Q9Z3R3	ND
1136	349.2	60S RIBOSOMAL PROTEIN L38.	tremblnew CAB54810	ND
1137	347.8	HYPOTHETICAL 82.9 KD PROTEIN.	sptrembl O42958	ND
1138	347.8	HYPOTHETICAL 30.9 KD PROTEIN.	sptrembl O95564	ND
1139	347.7	HYPOTHETICAL 51.9 KD PROTEIN IN PYC1-UBC2 INTERGENIC REGION.	swissprot P53170	ND
1140	347.0	Human actVA-ORF4-like protein sequence.	geneseqp Y14147	ND
1141	346.9	PUTATIVE POLY(A)-BINDING PROTEIN FABM.	sptrembl Q92227	ND
1142	346.2	DJ1014D13.1 (PROTEINS HSPC021 AND HSPC025	tremblnew CAB62978	ND

		(SIMILAR TO C. ELEGANS FAT-3 ALCOHOL DEHYDROGENASE)) (FRAGMENT).		
1143	346.0	CULLIN HOMOLOG 3 (CUL-3).	swissprot Q09760	ND
1144	345.0	SPHINGOMYELIN PHOSPHODIESTERASE (EC 3.1.4.12) (ACID SPHINGOMYELINASE) (NEUTRAL SPHINGOMYELINASE).	sptrembl Q16841	ND
1145	344.3	ENOYL-COA HYDRATASE, MITOCHONDRIAL PRECURSOR (EC 4.2.1.17) (SHORT CHAIN ENOYL-COA HYDRATASE) (SCEH) (ENOYL-COA HYDRATASE 1).	swissprot P14604	ND
1146	343.8	ESTS AU078175(C51476).	tremblnew BAA85408	ND
1147	342.8	MYO-INOSITOL-1-PHOSPHATE SYNTHASE (EC 5.5.1.4) (IPS).	swissprot P42801	ND
1148	342.8	3-OXOACYL-[ACYL-CARRIER PROTEIN] REDUCTASE.	sptrembl O53665	ND
1149	342.7	HYPOTHETICAL 62.7 KD PROTEIN C29A3.06 IN CHROMOSOME II.	sptrembl P78750	ND
1150	341.9	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
1151	341.7	HYPOTHETICAL 27.7 KD PROTEIN IN PRP19-HSP104 INTERGENIC REGION.	swissprot Q07821	ND
1152	341.6	PUTATIVE TRANSPORTER PROTEIN.	tremblnew CAB61275	ND
1153	340.9	NADH-CYTOCHROME B5 REDUCTASE PRECURSOR (EC 1.6.2.2) (P34/P32).	swissprot P36060	ND
1154	340.3	PUTATIVE OXIDOREDUCTASE.	tremblnew CAB53292	ND
1155	339.8	AMINOPEPTIDASE C (EC 3.4.22.-).	swissprot Q48543	ND
1156	339.5	PUTATIVE PRE-MRNA SPLICING FACTOR C22A12.09C.	sptrembl O13900	ND
1157	339.0	COPPER AMINE OXIDASE 1 (EC 1.4.3.6).	swissprot Q12556	ND
1158	338.9	S-ADENOSYLMETHIONINE SYNTHETASE (EC 2.5.1.6) (METHIONINE ADENOSYLTRANSFERASE) (ADOMET SYNTHETASE).	swissprot P48466	ND
1159	338.3	CONSERVED PROTEIN.	sptrembl O26459	ND
1160	338.1	PUTATIVE	sptrembl O59824	ND

		METALLOPEPTIDASE.		
1161	337.4	SIMILAR TO YEAST VACUOLAR SORTING PROTEIN VPS29/PEP11.	tremblnew CAB52425	ND
1162	337.4	PMT3P.	sptrembl O74186	ND
1163	336.8	3-KETOACYL-COA THIOLASE B, PEROXISOMAL PRECURSOR (EC 2.3.1.16) (BETA- KETOTHIOLASE B) (ACETYL-COA ACYLTRANSFERASE B) (PEROXISOMAL 3- OXOACYL- COA THIOLASE B).	swissnew P07871	ND
1164	335.8	PEROXISOMAL MEMBRANE PROTEIN PEX16 (PEROXIN-16).	swissprot P78980	ND
1165	335.8	CYTOCHROME B5 CONTAINING FUSION PROTEIN.	sptrembl Q43469	ND
1166	335.1	2-NITROPROPANE DIOXYGENASE (NCD2).	sptrembl O28109	ND
1167	334.6	HYPOTHETICAL 25.4 KD PROTEIN IN GUT1-RIM1 INTERGENIC REGION.	swissprot P38736	ND
1168	334.3	G/T MISMATCH-SPECIFIC THYMINE DNA GLYCOSYLASE (EC 3.2.2.-) (C-JUN LEUCINE ZIPPER INTERACTIVE PROTEIN JZA-3).	swissprot P56581	ND
1169	334.2	PROBABLE ELECTRON TRANSFER FLAVOPROTEIN ALPHA-SUBUNIT PRECURSOR (ALPHA-ETF).	swissprot P78790	ND
1170	333.9	PROBABLE GLUTAMINYL-TRNA SYNTHETASE.	sptrembl Q9Y7Y8	ND
1171	333.2	CYTOCHROME P450 MONOOXYGENASE (FRAGMENT).	sptrembl O64410	ND
1172	332.2	PEROXISOMAL MEMBRANE PROTEIN.	sptrembl Q9Y8B8	ND
1173	330.7	SHORT-CHAIN ALCOHOL DEHYDROGENASE.	tremblnew AAB51228	ND
1174	330.6	CRB3 PROTEIN.	swissprot Q10272	ND
1175	330.6	HYPOTHETICAL 126.1 KD PROTEIN.	sptrembl O94676	ND
1176	330.2	AUTOPHAGOCYTOSIS PROTEIN AUT1.	swissprot P40344	ND
1177	329.6	TTPI PROTEIN.	swissprot P38069	ND
1178	329.6	HYPOTHETICAL 51.4 KD PROTEIN C13G1.09 IN CHROMOSOME II.	swissprot O60071	ND
1179	329.5	SERYL-TRNA SYNTHETASE.	swissprot P07284	ND

		CYTOPLASMIC (EC 6.1.1.11) (SERINE--TRNA LIGASE) (SERRS).		
1180	328.9	HYPOTHETICAL 13.0 KS PROTEIN.	sptrembl P79082	ND
1181	328.6	ATP11 PROTEIN PRECURSOR.	swissprot P32453	ND
1182	328.3	GNS1/SUR4 FAMILY PROTEIN.	tremblnew CAB61470	ND
1183	327.6	GRG-1 PROTEIN.	sptrembl Q9Y836	ND
1184	326.3	HYPOTHETICAL PROTEIN C26F1.01 IN CHROMOSOME I (FRAGMENT).	swissprot Q10491	ND
1185	326.2	HEMOLYSIN.	sptrembl Q17063	ND
1186	325.6	PROBABLE ATP- DEPENDENT PERMEASE YHL035C.	swissprot P38735	ND
1187	325.1	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew CAB54870	ND
1188	324.9	HYPOTHETICAL 15.9 KD PROTEIN.	tremblnew CAB52421	ND
1189	324.7	HYPOTHETICAL 15.4 KD PROTEIN C10F6.16 IN CHROMOSOME I.	sptrembl P79058	ND
1190	324.6	HYPOTHETICAL 31.0 KD PROTEIN IN GAPI-NAPI INTERGENIC REGION.	swissprot P36136	ND
1191	324.5	PROBABLE CYTOCHROME C OXIDASE POLYPEPTIDE VIA PRECURSOR (EC 1.9.3.1).	swissprot O74471	ND
1192	323.4	ANUCLEATE PRIMARY STERIGMATA PROTEIN.	swissprot Q00083	ND
1193	322.9	LECTIN (FRAGMENT).	tremblnew AAD27887	ND
1194	322.5	PROTEIN SERINE/THREONINE PHOSPHATASE ALPHA.	sptrembl O96914	ND
1195	321.7	SLA2P.	sptrembl O94097	ND
1196	321.7	HYPOTHETICAL 42.4 KD PROTEIN IN CDC12-ORC6 INTERGENIC REGION.	swissprot P38716	ND
1197	321.5	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
1198	320.5	PUTATIVE CHOLINE KINASE (EC 2.7.1.32)	swissprot Q10276	ND
1199	320.5	GLUCOAMYLASE PRECURSOR (EC 3.2.1.3) (GLUCAN 1,4-ALPHA- GLUCOSIDASE) (1,4- ALPHA-D-GLUCAN GLUCOHYDROLASE).	swissprot P36914	ND
1200	319.7	60S RIBOSOMAL PROTEIN L27A (L29).	swissprot P78987	ND
1201	319.7	F26H9.6 PROTEIN.	sptrembl P91857	ND
1202	319.2	PROBABLE METABOLITE	sptrembl O94342	ND

		TRANSPORT PROTEIN.		
1203	319.0	HYPOTHETICAL 33.9 KD ESTERASE IN SMC3-MRPL8 INTERGENIC REGION (EC 3.1.1.1).	swissprot P40363	ND
1204	318.8	RIBOSOMAL PROTEIN S28.	tremblnew CAB56815	ND
1205	317.8	CELL CYCLE INHIBITOR NIF1.	sptrembl P87159	ND
1206	317.8	GLUCOSE OXIDASE (EC 1.1.3.4).	tremblnew BAA86908	ND
1208	317.1	SIMILAR TO SDH4P.	sptrembl Q06236	ND
1209	316.7	PHOSPHATE/PHOSPHOENO LPYRUVATE TRANSLOCATOR PRECURSOR.	sptrembl P93390	ND
1210	316.4	SERINE THREONINE PROTEIN KINASE.	sptrembl Q9Y7V4	ND
1211	315.4	HYPOTHETICAL 29.0 KD PROTEIN.	sptrembl Q9Y7C9	ND
1212	314.6	Human prostate/colon tumour suppressor protein form 2.	geneseq R85334	ND
1213	313.8	50S RIBOSOMAL PROTEIN L1.	swissprot P36248	ND
1214	313.8	HYPOTHETICAL 15.4 KD PROTEIN C16C10.11 IN CHROMOSOME III.	swissprot Q09254	ND
1215	313.3	HYPOTHETICAL 20.5 KD PROTEIN IN ESR1-IRA1 INTERGENIC REGION.	swissprot P38276	ND
1216	313.1	CHROMOSOME XII READING FRAME ORF YLL032C.	sptrembl Q07834	ND
1217	312.9	ADENYLYL CYCLASE- ASSOCIATED PROTEIN (CAP).	swissprot P36621	ND
1218	312.6	FREQUENCY CLOCK PROTEIN.	swissnew Q00586	ND
1219	312.4	HIGH AFFINITY METHIONINE PERMEASE.	swissprot P50276	ND
1220	312.2	PUTATIVE SHORT-CHAIN DEHYDROGENASE.	sptrembl Q9Y7P2	ND
1221	312.0	ARYL-ALCOHOL OXIDASE PRECURSOR (EC 1.1.3.7).	sptrembl O94219	ND
1222	311.6	RIBOSE-PHOSPHATE PYROPHOSPHOKINASE (EC 2.7.6.1) (PHOSPHORIBOSYL PYROPHOSPHATE SYNTHETASE).	swissprot P41831	ND
1223	311.5	PROBABLE URACIL PHOSPHORIBOSYLTRANSF ERASE.	tremblnew CAB65617	ND
1224	310.7	CGI-82 PROTEIN.	sptrembl Q9Y391	ND
1225	310.5	HYPOTHETICAL UBIQUINOL-CYTOCHROME	sptrembl O42932	ND

		C REDUCTASE COMPONENT.		
1226	310.3	HYPOTHETICAL 28.1 KD PROTEIN.	sptrembl O13850	ND
1227	310.3	PROTEASOME SUBUNIT P55.	sptrembl O00232	ND
1228	310.0	NADH DEHYDROGENASE SUBUNIT.	sptrembl Q01388	ND
1229	310.0	CHITINASE PRECURSOR.	sptrembl Q42421	ND
1230	309.6	CHROMOSOME XII READING FRAME ORF YLL058W.	sptrembl Q12198	ND
1231	309.3	T02D1.5 PROTEIN.	sptrembl O45730	ND
1232	308.2	HYPOTHETICAL 34.1 KD PROTEIN.	tremblnew CAB43297	ND
1233	308.2	L-FUCOSE PERMEASE.	swissprot P44776	ND
1234	307.9	PHO85P,LPH16P.	sptrembl Q02979	ND
1235	307.6	LYSOPHOSPHOLIPASE HOMOLOG.	sptrembl O18501	ND
1236	307.0	UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX UBIQUINONE-BINDING PROTEIN QP-C (EC 1.10.2.2) (UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX 11 KD PROTEIN) (COMPLEX III SUBUNIT VIII).	swissprot P48503	ND
1237	307.0	HYPOTHETICAL 16.9 KD PROTEIN IN ALD6-PDR12 INTERGENIC REGION.	swissprot Q02784	ND
1238	306.9	HYPOTHETICAL 102.7 KD PROTEIN IN PRP16-SRP40 INTERGENIC REGION.	swissprot P36165	ND
1239	306.8	ADENYLOSUCCINATE SYNTHETASE, MUSCLE ISOZYME (EC 6.3.4.4) (IMP--ASPARTATE LIGASE).	swissprot P28650	ND
1240	306.4	ADENYLATE KINASE 2 (EC 2.7.4.3) (ATP-AMP TRANSPHOSPHORYLASE).	swissprot P26364	ND
1241	305.7	RNA BINDING PROTEIN - PUTATIVE PRE MRNA SPLICING FACTOR.	sptrembl O74919	ND
1242	305.7	PUTATIVE PHOSPHOMEVALONATE KINASE.	tremblnew CAB52264	ND
1243	305.6	HYPOTHETICAL 24.1 KD PROTEIN.	sptrembl O94389	ND
1244	305.6	ARG-6 PROTEIN PRECURSOR [CONTAINS: N-ACETYL-GAMMA-GLUTAMYL-PHOSPHATE REDUCTASE (EC 1.2.1.38) (N-ACETYL-GLUTAMATE	swissnew P54898	ND

		SEMIALDEHYDE DEHYDROGENASE) (NAGSA DEHYDROGENASE); ACETYLGLUTAMATE KINASE (EC 2.7.2.8) (NAG KINASE) (AGK) (N- ACETYL-L-GLUTAMATE 5- PHOSPHOTRANSFERASE)].		
1245	305.5	Chlamydia pneumoniae transmembrane protein sequence.	geneseqp Y34630	Posttranslational modification, protein turnover, chaperones
1246	305.2	PUTATIVE RNA MATURATION PROTEIN.	sptrembl O94689	ND
1247	305.2	CYTOSKELETAL P17 PROTEIN (COACTOSIN) (CYCLIC AMP-REGULATED PROTEIN P16).	swissprot P34121	ND
1248	304.7	UDP- GLUCURONOSYLTRANSFE RASE 2C1 MICROSOMAL (EC 2.4.1.17) (UDPGT) (FRAGMENT).	swissprot P36514	ND
1249	304.5	C-RECEPTOR.	sptrembl Q9Y5Y0	ND
1250	304.4	THIOREDOXIN-LIKE PROTEIN.	tremblnew CAB54816	ND
1251	303.8	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
1252	303.6	PUTATIVE POLYA- BINDING PROTEIN.	sptrembl O94430	ND
1253	303.2	MITOCHONDRIAL FAD CARRIER PROTEIN FLX1.	sptrembl O13660	ND
1254	303.1	AMINOPEPTIDASE-LIKE PROTEIN.	tremblnew CAB36783	ND
1255	302.8	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q41814	ND
1256	302.6	SIMILAR TO MITOCHONDRIAL ADP/ATP CARRIER PROTEIN.	sptrembl Q06497	ND
1257	301.9	POSSIBLE COPPER TRANSPORT PROTEIN CTR2 (COPPER TRANSPORTER 2).	swissprot P38865	ND
1258	301.8	HYPOTHETICAL 38.6 KD PROTEIN.	sptrembl O86705	ND
1259	301.4	PJCHI-2.	sptrembl P91773	ND
1260	300.6	F14F9.5 PROTEIN.	tremblnew AAC69210	ND
1261	300.1	HYPOTHETICAL 20.5 KD PROTEIN C31F10.12 IN CHROMOSOME II.	sptrembl P87313	ND
1262	299.9	N. crassa mtr gene product.	geneseqp R79909	ND
1263	299.5	PUTATIVE DNA	sptrembl O94263	ND

		POLYMERASE EPSILON, SUBUNIT B.		
1264	299.0	Human actVA-ORF4-like protein sequence.	geneseqp Y14147	ND
1265	298.8	HYPOTHETICAL ZINC- TYPE ALCOHOL DEHYDROGENASE-LIKE PROTEIN IN GDH3-CNE1 INTERGENIC REGION.	swissprot P39713	ND
1266	298.4	CHROMOSOME XII COSMID 8167.	sptrembl Q05791	ND
1267	298.2	H04M03.4 PROTEIN.	tremblnew AAD12787	ND
1268	297.5	D8035.11P.	sptrembl Q03322	ND
1269	297.2	HYPOTHETICAL 65.3 KD PROTEIN K12H4.7 IN CHROMOSOME III.	swissprot P34528	ND
1270	297.1	Protein of the specification.	geneseqp W62553	ND
1271	296.4	PET191 PROTEIN PRECURSOR.	swissprot Q02772	ND
1272	296.4	HYPOTHETICAL 22.7 KD PROTEIN.	sptrembl O60073	ND
1273	296.2	CAMP-DEPENDENT PROTEIN KINASE CATALYTIC SUBUNIT.	sptrembl Q9Y777	ND
1274	296.2	PUTATIVE ELONGATION FACTOR 3.	sptrembl O94489	ND
1275	296.0	HYPOTHETICAL 140.6 KD PROTEIN C19A8.02 IN CHROMOSOME I.	sptrembl O13818	ND
1276	295.3	HYPOTHETICAL 30.8 KD PROTEIN IN DUP2-TIF4632 INTERGENIC REGION.	swissprot P53177	ND
1277	295.3	CHROMOSOME XV READING FRAME ORF YOR301W.	sptrembl Q08760	ND
1278	294.6	PUTATIVE TRANSLOCATION PROTEIN C2F3.02.	sptrembl O14085	ND
1279	294.1	BETA-MANNANASE.	tremblnew CAB56855	ND
1280	293.5	HYPOTHETICAL 16.8 KD PROTEIN IN SMY2-RPS6B INTERGENIC REGION.	swissprot P38293	ND
1281	293.2	PROBABLY UDP-N- ACETYLGLUCOSAMINE PYROPHOSPHORYLASE (EC 2.7.7.23).	swissprot O64765	ND
1282	293.1	IKI3 PROTEIN.	swissprot Q06706	ND
1283	292.8	METHYLMALONYL-COA DECARBOXYLASE GAMMA CHAIN.	tremblnew CAB49799	ND
1284	292.8	UV-INDUCED PROTEIN UVI31.	swissprot Q12238	ND
1285	292.7	HYPOTHETICAL 50.6 KD	sptrembl O14336	ND

		PROTEIN C1D7.03 IN CHROMOSOME II.		
1286	292.5	THIOREDOXIN PEROXIDASE PMP20.	tremblnew AAF04855	ND
1287	291.5	ARG-6 PROTEIN PRECURSOR [CONTAINS: N-ACETYL-GAMMA-GLUTAMYL-PHOSPHATE REDUCTASE (EC 1.2.1.38) (N-ACETYL-GLUTAMATE SEMIALDEHYDE DEHYDROGENASE) (NAGSA DEHYDROGENASE); ACETYLGLUTAMATE KINASE (EC 2.7.2.8) (NAG KINASE) (AGK) (N-ACETYL-L-GLUTAMATE 5-PHOSPHOTRANSFERASE)].	swissnew P54898	ND
1288	291.5	HYPOTHETICAL 50.8 KD PROTEIN IN MIR1-STE18 INTERGENIC REGION.	swissprot P47125	ND
1289	291.4	U1 SMALL NUCLEAR RIBONUCLEOPROTEIN C (U1-C).	swissprot P09234	ND
1290	291.2	HYPOTHETICAL 43.5 KD PROTEIN IN RPB9-ALG2 INTERGENIC REGION.	swissprot P53164	ND
1291	290.9	Kidney injury associated molecule HW034 protein #2.	geneseqp W86311	ND
1292	290.9	HYDROLASE 210 aa, chain C	pdb 1CMX	ND
1293	290.4	PUTATIVE SHORT CHAIN DEHYDROGENASE.	sptrembl Q9X858	ND
1294	290.2	KIAA0872 PROTEIN.	sptrembl O94949	ND
1295	289.7	CHROMOSOME XV READING FRAME ORF YOR367W.	sptrembl Q08873	ND
1296	289.4	HYPOTHETICAL 78.3 KD PROTEIN IN RIP1-GEA2 INTERGENIC REGION.	swissprot P39992	ND
1297	289.1	RAB GERANYLGERANYL TRANSFERASE ESCORT PROTEIN (REP).	sptrembl O93831	ND
1298	289.0	HYPOTHETICAL 37.4 KD PROTEIN.	sptrembl Q03976	ND
1299	288.7	STREPTOMYCIN BIOSYNTHESIS PROTEIN STRI-RELATED PROTEIN.	tremblnew AAF10934	ND
1300	288.7	HYPOTHETICAL 24.7 KD PROTEIN.	sptrembl O43039	ND
1301	288.5	SEDOHEPTULOSE-1,7-BISPHOSPHATASE, CHLOROPLAST PRECURSOR (EC 3.1.3.37) (SEDOHEPTULOSE-BISPHOSPHATASE) (SBPASE) (SED(1,7)P2ASE).	swissprot O20252	ND

1302	288.1	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl Q9WZQ7	ND
1303	287.1	CYTOCHROME B5 (FRAGMENT).	sptrembl O24651	ND
1304	286.7	SUR2 PROTEIN (SYRINGOMYCIN RESPONSE PROTEIN 2).	swissprot P38992	ND
1305	286.0	PUTATIVE TARTRATE TRANSPORTER.	swissprot P70786	ND
1306	285.5	ER LUMEN PROTEIN RETAINING RECEPTOR (HDEL RECEPTOR).	swissprot P18414	ND
1307	285.1	SORBITOL DEHYDROGENASE (EC 1.1.1.14) (L-IDITOL 2- DEHYDROGENASE).	swissprot Q06004	ND
1308	285.0	DNA BINDING PROTEIN NSDD.	sptrembl Q92226	ND
1309	284.4	KIAA1273 PROTEIN (FRAGMENT).	tremblnew BAA86587	ND
1310	284.3	QUINATE PERMEASE (QUINATE TRANSPORTER).	swissprot P11636	ND
1311	284.3	IMPORTIN BETA SUBUNIT.	sptrembl O74476	ND
1312	284.1	PROBABLE TRANSPORTER SEO1.	swissprot P39709	ND
1313	283.6	VACUOLAR ATP SYNTHASE 98 KD SUBUNIT (EC 3.6.1.34) (VACUOLAR ATPASE 98 KD SUBUNIT).	swissprot Q01290	ND
1314	283.5	40S RIBOSOMAL PROTEIN S26E (CRP5) (13.6 KD RIBOSOMAL PROTEIN).	swissprot P21772	ND
1315	283.4	GLUTAMINE REPEAT PROTEIN 1.	sptrembl Q61118	ND
1316	283.3	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
1317	283.2	VACUOLAR PROTEIN SORTING-LIKE PROTEIN.	tremblnew CAB41098	ND
1318	283.1	HYPOTHETICAL 31.6 KD PROTEIN.	sptrembl Q9Y7Z5	ND
1319	282.8	PUTATIVE CARBOXYPEPTIDASE S PRECURSOR (EC 3.4.17.4) (YSCS) (GLY-X CARBOXYPEPTIDASE).	sptrembl O13968	ND
1320	282.2	PUTATIVE ALDOSE 1- EPIMERASE.	tremblnew CAB62725	ND
1321	282.2	GLYCYL TRNA SYNTHETASE (FRAGMENT).	tremblnew AAC71652	ND
1322	281.7	TRANSCRIPTIONAL ACTIVATOR.	sptrembl O42804	ND
1323	281.6	Omega-cyclohexane fatty acid biosynthesis enzyme #1 ORF6.	geneseqp W71638	ND
1324	281.0	TOXD PROTEIN.	swissprot P54006	ND
1325	280.9	ADRENAL GLAND	tremblnew	ND

		PROTEIN AD-002.	AAF14858	
1326	280.7	TRNA-SPLICING ENDONUCLEASE SUBUNIT SEN2 (EC 3.1.27.9) (TRNA- INTRON ENDONUCLEASE).	swissprot P16658	ND
1327	280.6	TRK-1 PROTEIN.	sptrembl O74723	ND
1328	280.4	HYPOTHETICAL 89.6 KD PROTEIN C3H8.11 IN CHROMOSOME I.	swissnew Q10146	ND
1329	280.4	CHROMOSOME XII COSMID 9672.	sptrembl Q06541	ND
1330	280.4	HYPOTHETICAL 22.3 KD PROTEIN.	sptrembl O67071	ND
1331	280.4	HYPOTHETICAL 86.4 KD PROTEIN IN PHO5-VPS15 INTERGENIC REGION.	swissprot P38254	ND
1332	280.4	FISSION YEAST (FRAGMENT).	sptrembl P78758	ND
1333	279.9	INOSITOL POLYPHOSPHATE-5- PHOSPHATASE, 75 KDA (INOSITOL POLYPHOSPHATE 5- PHOSPHATASE II).	sptrembl O54996	ND
1334	279.5	NADH-UBIQUINONE OXIDOREDUCTASE 17.8 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-17.8KD) (CI- 17.8KD).	swissprot P42116	ND
1335	278.8	PUTATIVE TRANSCRIPTION FACTOR, CCR4- ASSOCIATED FACTOR HOMOLOG.	sptrembl O74856	ND
1336	278.3	NODULIN PRECURSOR.	sptrembl Q41402	ND
1337	278.2	CCAAT-BINDING TRANSCRIPTION FACTOR SUBUNIT AAB-1.	sptrembl O13381	ND
1338	278.2	HYPOTHETICAL 31.4 KD PROTEIN.	sptrembl Q9X7W7	ND
1339	278.1	HYDROXYQUINOL 1,2- DIOXYGENASE.	sptrembl Q9ZAM3	ND
1340	277.7	HYPOTHETICAL 61.9 KD PROTEIN.	tremblnew CAB58161	ND
1341	277.7	HYPOTHETICAL 39.4 KD PROTEIN IN MET1-SIS2 INTERGENIC REGION.	swissprot P36151	ND
1342	277.0	CELL DIVISION PROTEIN KINASE 7 (EC 2.7.1.-) (CDK- ACTIVATING KINASE) (CAK) (MO15 HOMOLOG).	swissprot P54685	ND
1343	276.5	CURVED DNA-BINDING PROTEIN (42 KD PROTEIN).	swissprot Q09184	ND
1344	276.2	COSMID T20B6.	sptrembl O02049	ND
1345	275.7	26S PROTEASOME REGULATORY SUBUNIT	swissprot P32496	ND

		NIN1 (NUCLEAR INTEGRITY PROTEIN 1).		
1346	275.5	HYPOTHETICAL 12.6 KD PROTEIN C1D7.01 IN CHROMOSOME II.	swissprot O14334	ND
1347	275.4	MAF1 PROTEIN.	swissprot P41910	ND
1348	274.8	SNM 1-2 TS (FRAGMENT).	sptrembl Q07072	ND
1349	274.5	NADH-UBIQUINONE OXIDOREDUCTASE 9.5 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-9.5KD) (CI-9.5) (UBIQUINONE-BINDING PROTEIN).	swissprot P42117	ND
1350	274.1	HYPOTHETICAL 16.2 KD PROTEIN C3D6.08C IN CHROMOSOME II.	swissprot P87173	ND
1351	274.1	PUTATIVE CHOLINE KINASE.	sptrembl O81024	ND
1352	273.5	CHITINASE PRECURSOR.	sptrembl Q42421	ND
1353	273.4	PENTALENENE SYNTHASE (EC 4.6.1.5).	swissprot Q55012	ND
1354	273.0	GLUTAMINYL-PEPTIDE CYCLOTRANSFERASE PRECURSOR (EC 2.3.2.5) (QC) (GLUTAMINYL-TRNA CYCLOTRANSFERASE) (GLUTAMINYL CYCLASE).	swissprot Q28120	ND
1355	272.4	STRONG SIMILARITY TO HUMAN LEUKOTRIENE A-4 HYDROLASE.	sptrembl O94544	ND
1356	272.1	KIAA0150 PROTEIN (FRAGMENT).	sptrembl Q14163	ND
1357	271.6	SQUALENE EPOXIDASE (EC 1.14.99.7).	tremblnew AAD10823	ND
1358	271.1	HYPOTHETICAL 44.9 KD PROTEIN IN URA10-NRC1 INTERGENIC REGION.	swissprot Q03529	ND
1359	270.1	30 KD HEAT SHOCK PROTEIN.	swissprot P19752	ND
1360	270.0	GLYCEROL KINASE (ATP:GLYCEROL 3-PHOSPHOTRANSFERASE) (EC 2.7.1.30).	tremblnew CAB58269	ND
1361	270.0	HYPOTHETICAL 31.3 KD HOMEBOX PROTEIN IN PRP20-VPS45 INTERGENIC REGION.	swissprot P53147	ND
1362	270.0	5',5'''-P-1,P-4-TETRAPHOSPHATE PHOSPHORYLASE II (EC 2.7.7.53) (DIADENOSINE 5',5'''-P1,P4-TETRAPHOSPHATE PHOSPHORYLASE) (AP-4-A PHOSPHORYLASE) (AP.A PHOSPHORYLASE) (ATP ADENYLYLTRANSFERASE)	swissprot P49348	ND

1363	269.7	PEROXISOMAL RECEPTOR FOR PTS2-CONTAINING PROTEINS PEX7P.	sptrembl O59894	ND
1364	269.6	HYPOTHETICAL 27.1 KD PROTEIN C26H5.13C IN CHROMOSOME I.	sptrembl O13994	ND
1365	269.4	ISOLEUCYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.5) (ISOLEUCINE--TRNA LIGASE) (ILERS).	swissprot P09436	ND
1366	269.3	Intact natural cutinase of <i>Fusarium solani</i> pisi.	geneseqp R06610	ND
1367	268.8	OXIDOREDUCTASE, ALDO/KETO REDUCTASE FAMILY.	sptrembl Q9X0A1	ND
1368	268.8	TRANSCRIPTION INITIATION FACTOR TFIID (TATA-BOX FACTOR) (TATA SEQUENCE-BINDING PROTEIN) (TBP).	swissprot Q12731	ND
1369	268.7	PUTATIVE TRANSCRIPTION FACTOR OF THE GCS1-GLO3-SPS18 FAMILY.	sptrembl O74345	ND
1370	268.6	HYPOTHETICAL 18.5 KD PROTEIN B0024.12 IN CHROMOSOME V.	sptrembl Q17427	ND
1371	268.3	2-OXOGLUTARATE DEHYDROGENASE E1 COMPONENT, MITOCHONDRIAL PRECURSOR (EC 1.2.4.2) (ALPHA-KETOGLUTARATE DEHYDROGENASE).	swissprot P20967	ND
1372	268.1	HYPOTHETICAL 51.0 KD PROTEIN IN YIP3-TFC5 INTERGENIC REGION.	swissprot P53960	ND
1373	268.1	OLIGOSACCHARYLTRANSFERASE.	sptrembl O43244	ND
1374	267.2	SYMBIOSIS-RELATED PROTEIN.	swissprot P87068	ND
1375	266.3	HYPOTHETICAL 130.1 KD PROTEIN YPR021C.	sptrembl Q12139	ND
1376	266.1	2-PYRONE-4,6-DICARBOXYLIC ACID HYDROLASE.	sptrembl O87170	ND
1377	265.8	HYPOTHETICAL 94.9 KD PROTEIN IN MRPL8-NUP82 INTERGENIC REGION.	swissprot P40367	ND
1378	264.9	HYPOTHETICAL 34.9 KD PROTEIN IN SM11-PHO81 INTERGENIC REGION.	swissprot P50085	ND
1379	264.5	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND

1380	264.5	HYPOTHETICAL FUNGAL ZN(2)-CYS(6) ZINC-FINGER PROTEIN.	tremblnew CAB57441	ND
1381	264.5	HOMOSERINE DEHYDROGENASE (EC 1.1.1.3) (HDH).	swissnew P31116	ND
1382	264.4	CHITIN BIOSYNTHESIS PROTEIN CHS5.	swissprot O74161	ND
1383	264.3	SCN1 PROTEIN.	swissprot P41890	ND
1384	263.4	PUTATIVE PRE-MRNA SPLICING FACTOR.	sptrembl Q9ZT71	ND
1385	263.1	FUSCA PROTEIN FUS6.	swissprot P45432	ND
1386	263.0	VERSCOLORIN B SYNTHASE.	sptrembl Q12062	ND
1387	263.0	PUTATIVE SUGAR TRANSPORTER.	sptrembl Q9XIH7	ND
1388	262.8	CLOCK-CONTROLLED GENE-6 PROTEIN.	sptrembl O74694	ND
1389	262.5	PUTATIVE EXOCYST COMPLEX COMPONENT.	sptrembl O74846	ND
1390	262.2	RIBOKINASE.	tremblnew AAF12258	ND
1391	262.2	HYPOTHETICAL ZINC METALLOPROTEINASE YIL108W (EC 3.4.24.-).	swissprot P40483	ND
1392	262.0	PUTATIVE MITOCHONDRIAL CARRIER YMR166C.	swissprot Q03829	ND
1393	261.8	D8035.13P.	sptrembl Q03327	ND
1394	261.7	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
1395	261.6	PUTATIVE ACETYLTRANSFERASE ATS1.	sptrembl P79081	ND
1396	260.8	QUINIC ACID UTILIZATION ACTIVATOR.	swissprot P10563	ND
1397	260.2	Whale mat sample AD3059 esterase es4.	geneseqp W23084	ND
1398	260.2	TRANSCRIPTION FACTOR ATF21.	sptrembl P78962	ND
1399	260.1	PUTATIVE ATP SYNTHASE J CHAIN, MITOCHONDRIAL (EC 3.6.1.34).	swissprot O13931	ND
1400	258.5	MSF1 PROTEIN.	swissprot P35200	ND
1401	258.5	PUTATIVE PHOSPHOMEVALONATE KINASE.	tremblnew CAB52264	ND
1402	258.4	CYTOCHROME C OXIDASE COPPER CHAPERONE.	swissprot Q12287	ND
1403	258.3	CUT8 PROTEIN.	swissprot P38937	ND
1404	257.7	K09H11.1 PROTEIN.	sptrembl O01590	ND
1405	257.6	NAD-DEPENDENT 4-HYDROXYBUTYRATE DEHYDROGENASE (EC 1.1.1.61) (4HBD).	sptrembl Q59104	ND
1406	257.4	DIHYDROLIPOAMIDE SUCCINYLTRANSFERASE.	tremblnew AAD47296	ND

1407	257.3	HYPOTHETICAL 63.9 KD PROTEIN IN IME2-MEF2 INTERGENIC REGION.	swissprot P42948	ND
1408	257.3	PROBABLE STERIGMATOCYSTIN BIOSYNTHESIS P450 MONOOXYGENASE STCB (EC 1.14.-.-) (CYTOCHROME P450 62).	swissprot Q12608	ND
1409	257.3	SCP160 PROTEIN (PROTEIN HX).	swissprot P06105	ND
1410	257.1	2,4'-DIHYDROXYACETOPHENONE DIOXYGENASE (EC 1.13.11.41) (FRAGMENT).	tremblnew CAB53781	ND
1411	256.7	LAMINARINASE.	sptrembl O52754	ND
1412	256.6	PUTATIVE N-TERMINAL ACETYLTRANSFERASE COMPLEX SUBUNIT, ARD1 FAMILY.	tremblnew CAB52427	ND
1413	256.3	SERINE/THREONINE-PROTEIN KINASE SAT4 (EC 2.7.1.-).	swissprot P25333	ND
1414	256.1	YGL010W-LIKE PROTEIN.	sptrembl O65074	ND
1415	255.7	ANNEXIN VII (SYNEXIN).	swissprot Q92125	ND
1416	255.7	FUN34 PROTEIN.	swissprot P32907	ND
1417	255.1	F55A11.3 PROTEIN.	sptrembl Q20798	ND
1418	255.0	PEROXISOMAL 2,4-DIENOYL COA REDUCTASE PX-2,4-DCR#1.	tremblnew AAF14047	ND
1419	254.9	PUTATIVE MITOCHONDRIAL CARRIER PROTEIN.	sptrembl O94502	ND
1420	254.5	ZINC CLUSTER TRANSCRIPTION FACTOR FCR1P.	sptrembl O93870	ND
1421	254.3	PROBABLE COATOMER GAMMA SUBUNIT (GAMMA-COAT PROTEIN) (GAMMA-COP).	swissprot P87140	ND
1422	254.0	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew CAB57439	ND
1423	253.6	XYLITOL DEHYDROGENASE (EC 1.1.1.9).	sptrembl O74230	ND
1424	253.3	SEC63 PROTEIN.	tremblnew CAB46275	ND
1425	253.2	HYPOTHETICAL OXIDOREDUCTASE IN MRPL44-MTF1 INTERGENIC REGION (EC 1.-.-.-).	swissprot Q05016	ND
1426	252.9	PROBABLE LYSYL-TRNA SYNTHETASE (EC 6.1.1.6) (LYSINE--TRNA LIGASE) (LYSRS).	swissprot Q22099	ND
1427	252.8	Trichoderma reesei ACEI	geneseqp	ND

		transcriptional activator protein.	W58572	
1428	252.6	HYPOTHETICAL 13.3 KD PROTEIN C23C4.13 IN CHROMOSOME I.	sptrembl O13932	ND
1429	252.6	MITOCHONDRIAL BETA SEN-DNA: ND4L GENE 5' END, ARG-TRNA GENE COMPLETE SEQUENCE, CO1 GENE, 3' END (FRAGMENT).	tremblnew AAA32005	ND
1430	252.3	PUTATIVE 50S RIBOSOMAL PROTEIN L14.	sptrembl O94292	ND
1431	252.2	PUTATIVE PRT1 PROTEIN.	swissprot P12806	ND
1432	251.7	PYRUVATE DEHYDROGENASE E1 COMPONENT ALPHA SUBUNIT, MITOCHONDRIAL PRECURSOR (EC 1.2.4.1) (PDHE1-A).	swissprot Q10489	ND
1433	251.2	Metallothionein protein sequence.	geneseqp W69479	ND
1434	250.4	ACR-2 PROTEIN.	sptrembl P78704	ND
1435	250.0	PUTATIVE TRANSCRIPTIONAL REGULATOR.	sptrembl O13337	ND
1436	249.9	DELTA(24)-STEROL C-METHYLTRANSFERASE (EC 2.1.1.41).	swissprot O74198	ND
1437	249.9	HALOTOLERANCE PROTEIN.	sptrembl O94505	ND
1438	249.7	40S RIBOSOMAL PROTEIN S28, MITOCHONDRIAL PRECURSOR.	swissprot P21771	ND
1439	249.6	HYPOTHETICAL 51.2 KD PROTEIN (PUTATIVE TRANSCRIPTION FACTOR C31F10.01 IN CHROMOSOME II).	sptrembl P87303	ND
1440	249.4	HISTONE H3 (FRAGMENT).	sptrembl Q42782	ND
1441	249.3	DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC (LIC53/55) (LIC-2).	swissprot Q62698	ND
1442	248.4	ATP SYNTHASE E CHAIN, MITOCHONDRIAL (EC 3.6.1.34).	swissprot P81449	ND
1443	248.3	Cladosporium herbarum allergen Clah11.	geneseqp R72669	ND
1444	248.1	METALLOTHIONEIN-LIKE PROTEIN CAP3.	swissprot Q99334	ND
1445	248.1	DNA BINDING REGULATORY PROTEIN AMDX.	sptrembl P79045	ND
1446	247.9	HEPATITIS A VIRUS RECEPTOR.	sptrembl O18984	ND

1447	247.6	1-PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE PHOSPHODIESTERASE 1 (EC 3.1.4.11) (PLC-1) (PHOSPHOLIPASE C-1).	swissnew P40977	ND
1448	246.6	CYTOCHROME C OXIDASE COPPER CHAPERONE.	swissprot Q12287	ND
1449	246.5	Mycobacterium tuberculosis 55 kDa protein.	geneseqp W31855	ND
1450	245.9	SIMILAR TO AAC-RICH MRNA CLONE AAC11 PROTEIN.	sptrembl Q22204	ND
1451	245.5	AUTOPHAGY PROTEIN APG6.	swissprot Q02948	ND
1452	245.3	Maize UDP-glucose dehydrogenase Zmudpgdh2.	geneseqp Y06307	ND
1453	244.0	HYDROXYPROLINE-RICH GLYCOPROTEIN PRECURSOR.	sptrembl Q41719	ND
1454	243.9	HYPOTHETICAL 36.4 KD PROTEIN IN SMP1-MBA1 INTERGENIC REGION.	swissprot P38298	ND
1455	243.6	CLOCK-CONTROLLED GENE-6 PROTEIN.	sptrembl O74694	ND
1456	243.4	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
1457	243.4	AMINOPEPTIDASE II (EC 3.4.11.-) (YSCII).	swissprot P32454	ND
1458	243.1	F17A22.8 PROTEIN.	sptrembl O82238	ND
1459	243.0	AUTOIMMUNE REGULATOR.	tremblnew AAD46421	ND
1460	242.9	HYPOTHETICAL 76.3 KD ZINC FINGER PROTEIN IN KTR5-UME3 INTERGENIC REGION.	swissprot P53968	ND
1461	242.8	ALCOHOL DEHYDROGENASE.	sptrembl O94564	ND
1462	242.8	PUTATIVE CYTOCHROME C OXIDASE POLYPEPTIDE.	sptrembl O94705	ND
1463	242.8	PROTEIN KINASE CHK1.	tremblnew CAA22551	ND
1464	242.5	SIMILAR TO GVPD_HALHA.	sptrembl Q05775	ND
1465	241.9	HYPOTHETICAL 80.9 KD PROTEIN (FRAGMENT).	tremblnew CAB60246	ND
1466	241.8	HYPOTHETICAL 53.5 KD PROTEIN C1F5.07C IN CHROMOSOME I.	swissprot Q10062	ND
1467	241.7	FISSION YEAST (FRAGMENT).	sptrembl P78824	ND
1468	241.6	OPSIN-I.	tremblnew AAD45253	ND
1469	241.3	HYPOTHETICAL 43.1 KD PROTEIN C16E9.14C IN	sptrembl O14329	ND

		CHROMOSOME II.		
1470	241.0	POSITIVE SULPHUR TRANSCRIPTION REGULATOR METR.	sptrembl Q9Y8B4	ND
1471	241.0	PHOSPHATE-REPRESSIBLE PHOSPHATE PERMEASE.	swissprot P15710	ND
1472	240.9	HYPOTHETICAL TRANSMEMBRANE PROTEIN.	sptrembl O94060	ND
1473	240.9	HYPOTHETICAL 11.7 KD PROTEIN C6B12.13 IN CHROMOSOME I.	swissprot O14218	ND
1474	240.7	HYPOTHETICAL 19.6 KD PROTEIN IN PYK1-SNC1 INTERGENIC REGION.	swissprot P28005	ND
1475	240.7	HYPOTHETICAL 8.7 KD PROTEIN.	sptrembl Q9ZRV8	ND
1476	240.0	LETHAL(2)TUMOROUS IMAGINAL DISCS.	sptrembl Q27237	ND
1477	239.7	HYPOTHETICAL 16.6 KD PROTEIN.	sptrembl O07408	ND
1478	239.7	Human 5' EST secreted protein SEQ ID NO: 470.	geneseq Y12157	ND
1479	239.4	HYDROXYPROLINE-RICH GLYCOPROTEIN PRECURSOR.	sptrembl Q41719	ND
1480	239.3	MITOCHONDRIAL 60S RIBOSOMAL PROTEIN L25 (YML25).	swissprot P23369	ND
1481	239.0	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
1482	239.0	OXIDOREDUCTASE OF SHORT-CHAIN.	sptrembl Q9X9U8	ND
1483	238.7	PROH (FRAGMENT).	sptrembl O07508	ND
1484	238.7	Y25C1A.7B PROTEIN.	tremblnew AAD12839	ND
1485	238.3	CYTOCHROME C OXIDASE ASSEMBLY PROTEIN COX15.	swissprot P40086	ND
1486	238.1	DNA REPAIR PROTEIN RHP55 (RAD55 HOMOLOG).	swissnew O14129	ND
1487	238.1	PEPTIDE SYNTHASE.	sptrembl O69825	ND
1488	238.0	KIAA1286 PROTEIN (FRAGMENT).	tremblnew BAA86600	ND
1489	237.9	EXTENSIN (FRAGMENT).	sptrembl O49870	ND
1490	237.7	GLYCOPROTEIN X PRECURSOR.	swissprot P28968	ND
1491	237.6	GLUTATHIONE S- TRANSFERASE YA (EC 2.5.1.18) (LIGANDIN) (CHAIN 1) (GST CLASS- ALPHA) (CLONES PGTR112 & PGTB38).	swissprot P04903	ND
1492	236.4	HYPOTHETICAL 29.0 KD PROTEIN.	sptrembl Q9ZDI5	ND

1493	235.9	2,3-BISPHOSPHOGLYCERATE-INDEPENDENT PHOSPHOGLYCERATE MUTASE.	sptrembl Q9X519	ND
1494	235.3	LEU/VAL/ILE AMINO-ACID PERMEASE (BRANCHED-CHAIN AMINO-ACID PERMEASE 2).	swissprot P38084	ND
1495	235.2	INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y785	ND
1496	235.2	Polylysine peptide NBC32.	geneseqp W65939	ND
1497	235.2	40S RIBOSOMAL PROTEIN S20.	swissprot O74893	ND
1498	235.1	HYPOTHETICAL 45.8 KD PROTEIN C30D10.03C IN CHROMOSOME II.	sptrembl O14349	ND
1499	235.1	HYPOTHETICAL 29.3 KD PROTEIN.	sptrembl O74943	ND
1500	234.6	HEROIN ESTERASE.	sptrembl O06441	ND
1501	234.5	HYPOTHETICAL FUNGAL ZN(2)-CYS(6) ZINC-FINGER PROTEIN.	tremblnew CAB57441	ND
1502	234.5	PUTATIVE TRANSCRIPTIONAL ACTIVATOR.	sptrembl O59830	ND
1503	234.2	3',5'-CYCLIC-NUCLEOTIDE PHOSPHODIESTERASE (EC 3.1.4.17) (PDEASE).	swissprot P32782	ND
1504	234.0	QUINATE PERMEASE (QUINATE TRANSPORTER).	swissprot P11636	ND
1505	233.9	INFECTION STRUCTURE SPECIFIC PROTEIN.	sptrembl Q9Y779	ND
1506	233.7	CHROMOSOME XII COSMID 9638.	sptrembl Q06479	ND
1507	233.0	QUINIC ACID UTILIZATION ACTIVATOR.	swissprot P10563	ND
1508	233.0	HYPOTHETICAL 74.0 KD PROTEIN.	sptrembl O65709	ND
1509	232.7	26S PROTEASOME REGULATORY SUBUNIT S5A.	sptrembl O81340	ND
1510	232.5	Mycobacterium species protein sequence 50B.	geneseqp Y04998	ND
1511	232.2	A-AGGLUTININ ATTACHMENT SUBUNIT PRECURSOR.	swissprot P32323	ND
1512	232.1	CYTOCHROME B2 PRECURSOR (EC 1.1.2.3) (L-LACTATE DEHYDROGENASE (CYTOCHROME)) (L-LACTATE FERRICYTOCHROME C OXIDOREDUCTASE) (L-	swissprot P09437	ND

		LCR).		
1513	231.9	ACR-2 PROTEIN.	sptrembl P78704	ND
1514	231.5	MSS51 PROTEIN.	swissprot P32335	ND
1515	231.4	Yeast proteasome YC1 subunit.	geneseqp R22996	ND
1516	231.3	ISOLEUCYL-TRNA SYNTHETASE.	tremblnew CAB52155	ND
1517	231.1	CELL WALL-PLASMA MEMBRANE LINKER PROTEIN.	sptrembl Q39353	ND
1518	231.0	PROLINE-RICH PROTEOGLYCAN PRPG2.	sptrembl Q07611	ND
1519	231.0	Fusarium oxysporum DSM 2672 endoglucanase.	geneseqp R25527	ND
1520	231.0	SARCOPLASMIC RETICULUM HISTIDINE-RICH CALCIUM-BINDING PROTEIN PRECURSOR (HCP).	swissprot P16230	ND
1521	230.8	HYPOTHETICAL 28.3 KD PROTEIN (FRAGMENT).	tremblnew CAB55927	ND
1522	230.4	HYPOTHETICAL 80.2 KD PROTEIN.	sptrembl O74423	ND
1523	230.1	BCDNA.LD28419.	tremblnew AAD55441	ND
1524	229.9	TRANSLOCATION ELONGATION FACTOR.	sptrembl O74945	ND
1525	229.9	HYPOTHETICAL 93.5 KD PROTEIN.	sptrembl O59744	ND
1526	229.7	HYPOTHETICAL 29.3 KD PROTEIN (ORF92).	swissprot O10341	ND
1527	229.7	RIBOSOMAL PROTEIN L41.	sptrembl Q9Y710	ND
1528	229.7	HYPOTHETICAL NUCLEAR PROTEIN (FRAGMENT).	tremblnew BAA87112	ND
1529	229.4	NEUROLYSIN PRECURSOR (EC 3.4.24.16) (NEUROTENSIN ENDOPEPTIDASE) (MITOCHONDRIAL OLIGOPEPTIDASE M) (MICROSOMAL ENDOPEPTIDASE) (MEP) (SOLUBLE ANGIOTENSIN-BINDING PROTEIN) (SABP) (ENDOPEPTIDASE 24.16).	swissnew Q02038	ND
1530	229.3	TREHALASE PRECURSOR (EC 3.2.1.28) (ALPHA,ALPHA-TREHALASE) (ALPHA,ALPHA-TREHALOSE GLUCOHYDROLASE).	swissprot O43280	ND
1531	229.1	ASPARTIC PROTEINASE MKC7 PRECURSOR (EC 3.4.23.-).	swissprot P53379	ND
1532	229.1	PHOSPHOLIPASE A2	sptrembl Q9Y5L1	ND

		ACTIVATING PROTEIN.		
1533	229.0	WUGSC:H_GS098E02.1 PROTEIN (FRAGMENT).	tremblnew AAF19251	ND
1534	228.9	T6C23.12 PROTEIN.	tremblnew AAF22917	ND
1535	228.4	Malassezia fungus MF-7 antigenic protein.	geneseqp W29774	ND
1536	228.3	MNN4 PROTEIN.	swissprot P36044	ND
1537	227.9	HYPOTHETICAL TRANSMEMBRANE PROTEIN.	sptrembl O94060	ND
1538	227.7	SYNTAXIN BINDING PROTEIN 1, SEC1 FAMILY SECRETOR Y PROTEIN.	sptrembl O94590	ND
1539	227.6	NUCLEAR PORE COMPLEX GLYCOPROTEIN P62.	sptrembl O57397	ND
1540	226.9	HUMAN 4F5S HOMOLOG	tremblnew CAB59614	ND
1541	226.5	CHROMOSOME XVI READING FRAME ORF YPL264C.	sptrembl Q08980	ND
1542	226.4	PALMITOYL-PROTEIN THIOESTERASE PRECURSOR.	sptrembl O59747	ND
1543	226.0	PUTATIVE MEMBRANE GLYCOPROTEIN.	sptrembl Q9Y7Y6	ND
1544	225.3	Human secreted protein encoded by 5' EST SEQ ID NO: 222.	geneseqp Y13208	ND
1545	225.1	VELVET A.	sptrembl O74625	ND
1546	225.0	INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y785	ND
1547	224.9	Protease biosynthetic protein.	geneseqp P70581	ND
1548	224.9	ARGININE METABOLISM REGULATION PROTEIN II.	swissprot P05085	ND
1549	224.6	BCDNA.GH06451.	tremblnew AAD55420	ND
1550	224.6	ORF YBR199W (FRAGMENT).	sptrembl P89506	ND
1551	224.5	PUTATIVE MITOCHONDRIAL 40S RIBOSOMAL PROTEIN YMR188C.	swissprot Q03246	ND
1552	223.8	MANNOSE-SPECIFIC LECTIN PRECURSOR (FRAGMENT).	sptrembl Q38726	ND
1553	223.3	ORF 2 of Enod2b genomic clone.	geneseqp R04119	ND
1554	223.3	COSMID C27A2.	sptrembl Q18238	ND
1555	223.2	IKI3 PROTEIN.	swissprot Q06706	ND
1556	223.0	ALPHA-L- ARABINOFURANOSIDASE.	sptrembl Q9WYB7	ND
1557	222.9	PUTATIVE ENOYL-COA HYDRATASE.	sptrembl O53211	ND
1558	222.8	SUGAR TRANSPORTER STI.1.	swissprot P39932	ND

1559	222.0	T4B21.2 PROTEIN.	sptrembl Q9ZS88	ND
1560	221.8	PUTATIVE PROTEOLIPID PROTEIN C2C4.13.	sptrembl O14046	ND
1561	221.6	PEROXISOMAL MEMBRANE PROTEIN PMP30B (PMP32) (PEROXIN-11B).	swissprot Q00317	ND
1562	221.1	HYPOTHETICAL 37.7 KD PROTEIN T09A5.8 IN CHROMOSOME III.	swissprot P45968	ND
1563	221.0	DJ1042K10.5 (NOVEL PROTEIN) (FRAGMENT).	sptrembl O95516	ND
1564	220.9	CLATHRIN LIGHT CHAIN.	tremblnew CAB42369	ND
1565	220.8	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN).	swissprot P13983	ND
1566	220.7	NPGA PROTEIN.	tremblnew AAF12814	ND
1567	220.5	MUCIN (FRAGMENT).	sptrembl Q28501	ND
1568	220.5	PIUS.	tremblnew BAA87611	ND
1569	220.4	CHROMOSOME XV READING FRAME ORF YOR084W.	sptrembl Q12405	ND
1570	219.9	CYSTEINE-RICH PROTEIN (FRAGMENT).	sptrembl Q16861	ND
1571	219.6	HYPOTHETICAL 74.7 KD PROTEIN.	sptrembl O94033	ND
1572	219.4	HEAT SHOCK PROTEIN 70 HOMOLOG C57A7.12.	sptrembl P87142	ND
1573	219.2	EMM18.1.	sptrembl Q54703	ND
1574	218.8	HYPOTHETICAL 26.8 KD PROTEIN IN HYR1 3'REGION.	swissprot P40582	ND
1575	218.0	HYPOTHETICAL 23.2 KD PROTEIN IN SKM1-TRF4 INTERGENIC REGION.	swissprot Q12322	ND
1576	218.0	SIMILAR TO ALPHA-SNAP PROTEIN.	sptrembl Q18921	ND
1577	218.0	CHROMOSOME IV READING FRAME ORF YDL237W.	sptrembl Q07716	ND
1578	217.8	HYPOTHETICAL PROTEIN (FRAGMENT).	sptrembl Q12742	ND
1579	217.5	CHROMOSOME XV READING FRAME ORF YOL129W.	sptrembl Q12016	ND
1580	217.4	POTENTIAL MEMBRANE PROTEIN.	sptrembl O94006	ND
1581	217.3	CHROMOSOME IV READING FRAME ORF YDL144C.	sptrembl Q07589	ND
1582	217.2	LIGAND OF NUMB-PROTEIN X (LNXP80).	sptrembl O70263	ND

1583	217.0	PIG-B.	sptrembl Q92521	ND
1584	216.9	PHOSPHATIDYL SERINE SYNTHASE.	sptrembl Q9ZQW1	ND
1585	216.9	PUTATIVE CHOLINE KINASE.	sptrembl O81024	ND
1586	216.5	UV-DAMAGED DNA- BINDING PROTEIN- LIKE.	sptrembl O49552	ND
1587	216.1	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
1588	216.0	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl Q9Y7J3	ND
1589	215.2	ANTIGEN 2.	sptrembl Q12295	ND
1590	215.0	PROTEOPHOSPHOGLYCAN PRECURSOR (FRAGMENT).	sptrembl Q9Y076	ND
1591	214.4	LET-756 PROTEIN.	sptrembl O76831	ND
1592	214.1	REPRESSIBLE ALKALINE PHOSPHATASE PRECURSOR (EC 3.1.3.1).	swissprot P11491	ND
1593	214.0	BACITRACIN SYNTHETASE 2 (BA2) (FRAGMENT).	tremblnew BAA36755	ND
1594	213.9	IMMUNOREACTIVE HEAT SHOCK PROTEIN DNAJ.	sptrembl Q9XCA6	ND
1595	213.9	HYPOTHETICAL 107.1 KD PROTEIN C24H6.11C IN CHROMOSOME I.	swissprot Q09764	ND
1596	213.7	HYPOTHETICAL 34.2 KD PROTEIN C31F10.07 IN CHROMOSOME II.	sptrembl P87308	ND
1597	213.4	HYPOTHETICAL 12.8 KD PROTEIN IN ARO9-SPS100 INTERGENIC REGION PRECURSOR.	swissprot P38841	ND
1598	213.1	HYPOTHETICAL PROTEIN C3C7.15C IN CHROMOSOME I (FRAGMENT).	sptrembl O14138	ND
1599	213.1	HARD SURFACE INDUCED PROTEIN 3.	tremblnew AAF00024	ND
1600	213.0	S18 CHORION PROTEIN.	sptrembl O62009	ND
1601	212.8	HYPOTHETICAL SH3- CONTAINING PROTEIN.	tremblnew CAB52037	ND
1602	212.4	ANKYRIN.	sptrembl Q24241	ND
1603	212.0	PEROXISOMAL MEMBRANE PROTEIN PER9 (PEROXIN-3).	swissprot Q01497	ND
1604	212.0	HYPOTHETICAL 26.3 KD PROTEIN IN OYE2-GND1 INTERGENIC REGION.	swissprot P38869	ND
1605	211.2	F24J5.8 PROTEIN.	tremblnew AAD49974	ND
1606	211.1	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q42366	ND
1607	210.5	HYPOTHETICAL RHO1 GDP-GTP EXCHANGE	sptrembl Q9Y7U5	ND

		PROTEIN.		
1608	209.8	PRB1M PROTEIN (FRAGMENT).	sptrembl Q16038	ND
1609	209.6	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl Q9Y7P1	ND
1610	209.4	HYPOTHETICAL 30.3 KD PROTEIN.	sptrembl Q9ZC03	ND
1611	209.1	NONF.	sptrembl Q9XDF2	ND
1612	208.9	CAP22 PROTEIN.	sptrembl O94177	ND
1613	208.8	ORIGIN RECOGNITION COMPLEX SUBUNIT 1.	swissprot O74270	ND
1614	208.7	PUTATIVE SECRETED PROLINE-RICH PROTEIN.	tremblnew CAB63180	ND
1615	208.5	NON-CLASSICAL EXPORT PROTEIN NCE2.	swissprot Q12207	ND
1616	208.2	HYPOTHETICAL 36.8 KD PROTEIN.	sptrembl P71847	ND
1617	208.1	LIGF PROTEIN.	swissprot P30347	ND
1618	208.0	EUKARYOTIC TRANSLATION INITIATION FACTOR 5 (EIF-5).	swissprot P38431	ND
1619	207.2	PUTATIVE FRUCTOSYL AMINO ACID OXIDASE.	tremblnew CAB59618	ND
1620	207.0	RNA POLYMERASE II SUBUNIT RPB7 (FRAGMENT).	tremblnew CAA20136	ND
1621	206.7	KYNURENINASE (EC 3.7.1.3) (L-KYNURENINE HYDROLASE).	swissprot Q16719	ND
1622	206.3	HYPOTHETICAL 25.4 KD PROTEIN IN SAPI85-BCK1 INTERGENIC REGION.	swissprot P40858	ND
1623	206.2	CPC3 PROTEIN.	sptrembl O74297	ND
1624	205.7	SEVERIN KINASE.	sptrembl O61122	ND
1625	205.7	HYPOTHETICAL 42.2 KD PROTEIN.	tremblnew CAB62412	ND
1626	205.6	HYPOTHETICAL PROTEIN HI0828.	swissprot P44887	ND
1627	205.2	DEVELOPMENTAL REGULATORY PROTEIN.	sptrembl Q00760	ND
1628	205.1	PUTATIVE GAMMA-BUTYROBETAINE,2-OXOGLUTARATE DIOXYGENASE (EC 1.14.11.1) (GAMMA-BUTYROBETAINE HYDROXYLASE) (GAMMA-BBH)	swissprot Q19000	ND
1629	204.9	Human epidermoid carcinoma cell line KB clone HP10301 protein.	geneseqp W64553	ND
1630	204.9	PROTEIN-TYROSINE PHOSPHATASE 99A PRECURSOR (EC 3.1.3.48) (RECEPTOR-LINKED	swissprot P35832	ND

		PROTEIN-TYROSINE PHOSPHATASE 99A).		
1631	204.3	(VSP-3) PRECURSOR.	sptrembl Q39620	ND
1632	204.3	HYPOTHETICAL 26.2 KD PROTEIN IN SPC42-PTM1 INTERGENIC REGION.	swissprot P36095	ND
1633	204.3	PUTATIVE TRANSPORTER C11D3.18C.	swissprot Q10097	ND
1634	204.2	STERIGMATOCYSTIN BIOSYNTHESIS REGULATORY PROTEIN.	swissprot P52957	ND
1635	204.1	EXTENSIN PRECURSOR.	sptrembl Q40768	ND
1636	204.0	HYPOTHETICAL 29.9 KD PROTEIN IN APL6-MES1 INTERGENIC REGION.	swissprot P53323	ND
1637	204.0	PROLINE RICH PROTEIN PRECURSOR.	sptrembl Q43558	ND
1638	204.0	2-OXOGLUTARATE DEHYDROGENASE E1 COMPONENT, MITOCHONDRIAL PRECURSOR (EC 1.2.4.2) (ALPHA-KETOGLUTARATE DEHYDROGENASE).	swissprot P20967	ND
1639	203.4	An enzyme with sugar transferase activity.	geneseqp W88044	ND
1640	203.4	AFLR REGULATORY PROTEIN.	sptrembl O94141	ND
1641	202.9	HYPOTHETICAL 28.8 KD PROTEIN IN PSD1-SKO1 INTERGENIC REGION.	swissprot P53889	ND
1642	202.3	Mycobacterium species protein sequence 50B.	geneseqp Y04998	ND
1643	202.2	HYPOTHETICAL 28.2 KD PROTEIN IN GLNQ-ANSR INTERGENIC REGION.	swissprot P54549	ND
1644	202.2	F56H9.1 PROTEIN.	sptrembl Q20908	ND
1645	202.1	TRFA.	sptrembl O77033	ND
1646	202.1	HYPOTHETICAL PROTEIN (FRAGMENT).	tremblnew BAA87194	ND
1647	201.9	Human phosphodiesterase type IV D.	geneseqp R99743	ND
1648	201.0	Prod. of the AccI fragment of SHR3 gene.	geneseqp R34708	ND
1649	200.7	HYPOTHETICAL 33.4 KD PROTEIN C3A12.09C IN CHROMOSOME I.	sptrembl P87125	ND
1650	200.6	UL6 PROTEIN (FRAGMENT).	sptrembl Q65580	ND
1651	200.4	PUTATIVE 109.8 KD TRANSCRIPTIONAL REGULATORY PROTEIN IN SOK2-FMS1 INTERGENIC REGION.	swissprot P50104	ND
1652	200.4	HYPOTHETICAL 22.4 KD PROTEIN IN GCN20-CMK1	swissprot P43595	ND

		INTERGENIC REGION PRECURSOR.		
1653	199.7	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
1654	199.6	EXTENSIN (FRAGMENT).	sptrembl O49870	ND
1655	199.4	Mycobacterium species protein sequence 50B.	geneseqp Y04998	ND
1656	199.1	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew CAB52741	ND
1657	198.9	SALIVARY PROLINE-RICH PROTEIN RP4 PRECURSOR.	sptrembl Q04117	ND
1658	198.9	HYPOTHETICAL 26.5 KD PROTEIN C15A10.05C IN CHROMOSOME I.	swissprot O13725	ND
1659	198.9	40S RIBOSOMAL PROTEIN S8 (S14) (YS9) (RP19).	swissprot P05754	ND
1660	198.8	ZINC FINGER PROTEIN.	sptrembl O59811	ND
1661	198.4	E2F1-INDUCIBLE PROTEIN (FRAGMENT).	tremblnew AAD53115	ND
1662	198.2	Trichoderma reesei ACEII transcriptional activator protein.	geneseqp W58573	ND
1663	198.1	HYPOTHETICAL PROTEIN (FRAGMENT).	tremblnew BAA87194	ND
1664	197.9	Metal-regulated transporter polypeptide ZIP3.	geneseqp W41165	ND
1665	197.8	HYPOTHETICAL 26.8 KD PROTEIN.	sptrembl O65515	ND
1666	197.6	F56A11.6 PROTEIN.	sptrembl O44519	ND
1667	197.5	5'-AMP-ACTIVATED PROTEIN KINASE.	tremblnew CAA22634	ND
1668	197.5	GUANINE NUCLEOTIDE- BINDING PROTEIN GAMMA SUBUNIT.	swissprot P18852	ND
1669	197.4	HYPOTHETICAL 67.0 KD PROTEIN (FRAGMENT).	sptrembl O94367	ND
1670	197.4	RHODOPSIN (FRAGMENT).	tremblnew AAC27436	ND
1671	197.2	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q42366	ND
1672	197.1	OXOGLUTARATE MALATE TRANSLOCATOR.	sptrembl Q43649	ND
1673	196.9	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN (FRAGMENT).	sptrembl Q40552	ND
1674	196.7	SIMILARITY TO THE CDC2/CDX SUBFAMILY OF SFR/THR PROTEIN KINASES.	sptrembl O01775	ND
1675	196.5	CELL WALL-PLASMA MEMBRANE LINKER PROTEIN.	sptrembl Q39353	ND
1676	195.9	HYPOTHETICAL 181.5 KD PROTEIN C23D3.13C IN CHROMOSOME I.	swissprot Q09853	ND
1677	195.6	SID478P.	tremblnew	ND

			BAA84693	
1678	195.1	HYPOTHETICAL 32.9 KD PROTEIN.	sptrembl Q9XA40	ND
1679	194.5	3' END (FRAGMENT).	sptrembl Q26893	ND
1680	194.2	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
1681	194.2	SIMILAR TO LONG TANDEM REPEAT REGION OF SIALIDASE.	sptrembl Q23635	ND
1682	194.1	PHOSPHOLIPID METHYLTRANSFERASE.	sptrembl P87300	ND
1683	194.0	DNA-DIRECTED RNA POLYMERASE I 13.7 KD POLYPEPTIDE (EC 2.7.7.6) (A12.2).	swissprot P32529	ND
1684	193.8	Mouse acylcoenzyme A:cholesterol acyltransferase II.	geneseqp W43408	ND
1685	193.4	Sugar beet chitinase I.	geneseqp R28150	ND
1686	193.3	PROLINE-RICH CELL WALL PROTEIN.	sptrembl Q39789	ND
1687	193.2	SERINE-RICH PROTEIN.	sptrembl O94317	ND
1688	193.0	Trichoderma reesei ACEI transcriptional activator protein.	geneseqp W58572	ND
1689	192.9	HYPOTHETICAL 96.1 KD PROTEIN IN RIM1-RPS14A INTERGENIC REGION.	swissprot P25623	ND
1690	192.5	FIBRILLARIN.	swissprot Q22053	ND
1691	192.1	PUTATIVE COMPONENT OF CCAAT BINDING COMPLEX HAPC.	sptrembl Q00735	ND
1692	192.1	SALIVARY GLUE PROTEIN SGS-3 PRECURSOR.	swissprot P02840	ND
1693	192.0	PFC0175W PROTEIN.	sptrembl O97226	ND
1694	191.7	SERINE-RICH PROTEIN.	sptrembl O94317	ND
1695	191.6	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT (EC 2.7.7.6) (FRAGMENT).	swissprot P35084	ND
1696	191.5	LEEIP.	sptrembl Q06701	ND
1697	191.0	HYPOTHETICAL NUCLEAR PROTEIN (FRAGMENT).	tremblnew BAA87304	ND
1698	191.0	VACUOLAR PROTEASE A PRECURSOR (EC 3.4.23.-).	swissprot Q01294	ND
1699	190.9	PUTATIVE 109.8 KD TRANSCRIPTIONAL REGULATORY PROTEIN IN SOK2-FMS1 INTERGENIC REGION.	swissprot P50104	ND
1700	190.8	INTEGRAL PEROXISOMAL MEMBRANE PROTEIN.	tremblnew AAF22254	ND
1701	190.4	ORF 171.	sptrembl Q45944	ND
1702	190.4	Human regulator of G-protein signalling 1 (RGPS-1).	geneseqp W30560	ND
1703	190.3	HYPOTHETICAL 63.7 KD PROTEIN C16E9.02C IN	sptrembl O14319	ND

		CHROMOSOME II.		
1704	190.3	Colon cancer associated antigen precursor sequence.	geneseqp Y07109	ND
1705	190.2	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
1706	190.2	MYELIN GENE EXPRESSION FACTOR 2.	sptrembl Q9Y655	ND
1707	190.2	HYPOTHETICAL 63.1 KD PROTEIN.	sptrembl O43071	ND
1708	189.6	ADENOSYLHOMOCYSTEINASE (EC 3.3.1.1) (S-ADENOSYL-L-HOMOCYSTEINE HYDROLASE) (ADOHCYASE).	swissprot P10819	ND
1709	189.6	Mycobacterium tuberculosis specific DNA-encoded polypeptide.	geneseqp Y31745	ND
1710	189.6	HYPOTHETICAL 35.4 KD PROTEIN.	sptrembl P93845	ND
1711	189.3	FLGA insert stabilising polypeptide.	geneseqp W79128	ND
1712	189.3	60S RIBOSOMAL PROTEIN L7, MITOCHONDRIAL PRECURSOR (YML7).	swissprot P36519	ND
1713	189.1	HYPOTHETICAL 33.0 KD PROTEIN IN PROB-PROA INTERGENIC REGION.	swissprot P45637	ND
1714	189.0	HYPOTHETICAL 33.5 KD PROTEIN IN SEC53-ACT1 INTERGENIC REGION.	swissprot P43558	ND
1715	188.7	HYPOTHETICAL 70.9 KD PROTEIN IN CBP2 5'REGION.	swissprot P38731	ND
1716	188.6	TRANSCRIPTION FACTOR DMAX.	sptrembl P91664	ND
1717	188.6	WAIT-1.	tremblnew AAC68675	ND
1718	188.6	EXTENSIN-LIKE PROTEIN.	sptrembl O81765	ND
1719	188.3	PUTATIVE ZINC FINGER PROTEIN.	sptrembl O74256	ND
1720	188.2	HYPOTHETICAL 18.7 KD PROTEIN IN HMS1-ABF2 INTERGENIC REGION.	swissprot Q04767	ND
1721	187.8	D-pantolactone hydrolase from Fusarium oxysporum.	geneseqp W21857	ND
1722	187.8	SALIVARY PROLINE-RICH PROTEIN RP4 PRECURSOR.	sptrembl Q04117	ND
1723	187.6	HYPOTHETICAL 29.7 KD PROTEIN IN RPLI-CPDB INTERGENIC REGION (F286).	swissprot P39315	ND
1724	187.6	HEPATITIS A VIRUS CELLULAR RECEPTOR 1 LONG FORM (HEPATITIS A VIRUS CELLULAR	sptrembl O46598	ND

		RECEPTOR 1 SHORT FORM).		
1725	187.2	GLUTAMINE REPEAT PROTEIN 1.	sptrembl Q61118	ND
1726	187.0	GLUE PROTEIN.	sptrembl Q27423	ND
1727	186.9	HYPOTHETICAL 11.6 KD PROTEIN.	sptrembl O59764	ND
1728	186.9	TAMA.	sptrembl Q00741	ND
1729	186.8	HOL1 PROTEIN.	swissprot P53389	ND
1730	186.3	PPRB GENE.	sptrembl Q52088	ND
1731	186.2	YUP8H12R.22 PROTEIN.	sptrembl O64535	ND
1732	186.0	HYPOTHETICAL 25.9 KD PROTEIN C16A3.04 IN CHROMOSOME II.	sptrembl O42911	ND
1733	185.7	HAVCR-1 PROTEIN PRECURSOR.	sptrembl Q95144	ND
1734	185.7	Fragmented human NF-1. gene +2 frameshift mutant product.	geneseqp W18658	ND
1735	185.6	64AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YAL3	ND
1736	185.5	CUTINASE TRANSCRIPTION FACTOR 1 ALPHA.	swissprot P52958	ND
1737	185.5	MICROFILARIAL SHEATH PROTEIN SHP3 PRECURSOR.	sptrembl Q17260	ND
1738	185.4	MEROZOITE SURFACE PROTEIN CMZ-8 (FRAGMENT).	swissprot P09125	ND
1739	185.4	HYPOTHETICAL 42.9 KD PROTEIN.	sptrembl O74814	ND
1740	185.3	SUPEROXIDE-GENERATING NADPH OXIDASE FLAVOCYTOCHROME.	sptrembl Q9XYS3	ND
1741	185.2	NNF1 PROTEIN.	swissprot P47149	ND
1742	184.7	HYPOTHETICAL 57.5 KD PROTEIN IN VMA7-RPS25A INTERGENIC REGION.	swissprot P53214	ND
1743	184.6	TRANSITIONAL ENDOPLASMIC RETICULUM ATPASE HOMOLOG 2 (P97/CDC48 HOMOLOG 2).	swissnew P54812	ND
1744	184.4	RNA BINDING PROTEIN (FRAGMENT).	tremblnew BAA83714	ND
1745	184.3	HYPOTHETICAL PROTEIN MG096.	swissnew P47342	ND
1746	184.3	Sequence A encoded by a portion of SA307.	geneseqp P60623	ND
1747	184.3	MUCIN.	sptrembl Q28226	ND
1748	183.9	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
1749	183.9	CARBOXYPEPTIDASE S PRECURSOR (EC 3.4.17.4) (YSCS) (GLY-X	swissprot P27614	ND

		CARBOXYPEPTIDASE).		
1750	183.8	HYPOTHETICAL 55.0 KD PROTEIN.	sptrembl P96824	ND
1751	183.2	Aspergillus nidulans essential protein AN80.	geneseqp Y06416	ND
1752	183.1	BETA-1,3-GLUCANOSYLTRANSFERASE.	sptrembl O59909	ND
1753	183.1	RAD1.	tremblnew AAC95465	ND
1754	183.0	HYPOTHETICAL 28.6 KD PROTEIN.	tremblnew CAB41006	ND
1755	182.9	BDF1 PROTEIN.	swissprot P35817	ND
1756	182.8	HYPOTHETICAL 57.2 KD PROTEIN.	sptrembl O68872	ND
1757	182.5	F14B4.2 PROTEIN.	sptrembl Q19440	ND
1758	182.4	PUTATIVE CLEAVAGE AND POLYADENYLATION SPECIFICITY FACTOR.	sptrembl O74740	ND
1759	182.3	EXTENSIN CLASS II PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) (HRGP) (TOML-4).	sptrembl Q09084	ND
1760	182.2	VOLTAGE-DEPENDENT P/Q TYPE CALCIUM CHANNEL ALPHA 1A SUBUNIT (FRAGMENT).	sptrembl O95387	ND
1761	182.1	HEPATITIS A VIRUS CELLULAR RECEPTOR 1 LONG FORM (HEPATITIS A VIRUS CELLULAR RECEPTOR 1 SHORT FORM).	sptrembl O46598	ND
1762	182.1	Amino acid sequence of a human secreted protein.	geneseqp Y19477	ND
1763	181.9	HEPATITIS A VIRUS RECEPTOR.	sptrembl O18984	ND
1764	181.9	SIMILAR TO D. MELANOGASTER BRCORE-Q1-Z1 PROTEIN AND V. VIRUS PROTEIN A55.	sptrembl Q17782	ND
1765	181.8	LATENT NUCLEAR ANTIGEN.	sptrembl Q9WRM2	ND
1766	181.8	HOR1-17 C-HORDEIN.	sptrembl Q40053	ND
1767	181.6	HYPOTHETICAL 112.1 KD PROTEIN.	sptrembl O86637	ND
1768	181.6	MITOCHONDRIAL TRANSCRIPTION FACTOR 1 PRECURSOR (MTTF1).	swissprot Q00059	ND
1769	181.6	PUTATIVE ACYL-COA DEHYDROGENASE.	tremblnew CAB46788	ND
1770	181.5	HYPOTHETICAL 83.7 KD PROTEIN C4F10.07C IN CHROMOSOME I.	sptrembl O36019	ND
1771	181.5	EXTENSIN-LIKE PROTEIN.	tremblnew	ND

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1772	181.4	PROLINE-RICH CELL WALL PROTEIN.	sptrembl Q39763	ND
1773	181.4	FLGA insert stabilising polypeptide.	geneseqp W79128	ND
1774	181.4	Hepatitis A virus receptor.	geneseqp R92803	ND
1775	181.2	CONSERVED HYPOTHETICAL ZINC-FINGER PROTEIN.	sptrembl O94264	ND
1776	181.1	HYPOTHETICAL 79.1 KD PROTEIN.	sptrembl O60161	ND
1777	181.1	Rat 25-hydroxyvitamin D3-1-alpha-hydroxylase.	geneseqp W89552	ND
1778	181.0	Collagen-like polymer.	geneseqp W57645	ND
1779	181.0	PROBABLE METABOLITE TRANSPORT PROTEIN.	sptrembl O94342	ND
1780	180.8	PUTATIVE MITOCHONDRIAL 60S RIBOSOMAL PROTEIN L31 PRECURSOR.	tremblnew CAB53083	ND
1781	180.7	AMINOPEPTIDASE II (EC 3.4.11.-) (YSCII).	swissprot P32454	ND
1782	180.5	HYPOTHETICAL 61.1 KD PROTEIN (FRAGMENT).	tremblnew CAB63715	ND
1783	180.5	FLGA insert stabilising polypeptide.	geneseqp W79128	ND
1784	180.4	HYPOTHETICAL 18.4 KD PROTEIN.	sptrembl Q9Y801	ND
1785	180.1	A-AGGLUTININ ATTACHMENT SUBUNIT PRECURSOR.	swissprot P32323	ND
1786	180.1	HYPOTHETICAL 62.9 KD PROTEIN.	sptrembl P74375	ND
1787	179.9	PUTATIVE ACID PHOSPHATASE.	tremblnew CAB58405	ND
1788	179.4	CHECKPOINT PROTEIN RAD17.	swissprot P50531	ND
1789	179.3	Drosophila dCREB1 protein.	geneseqp R91295	ND
1790	178.7	ABP32.	tremblnew BAA84922	ND
1791	178.5	Human iduronate 2-sulphatase protein sequence.	geneseqp Y23982	ND
1792	178.5	Q174 PROTEIN.	sptrembl O74567	ND
1793	178.3	D9461.15P.	sptrembl Q04066	ND
1794	178.3	SF16 ISOLOG.	sptrembl O22835	ND
1795	178.0	SUCAB-LPD OPERON, SUCB AND LPD GENES, COMPLETE CDS, SUCA GENE PARTIAL CDS AND IS-150-LIKE ELEMENT 3' END (FRAGMENT).	sptrembl Q50992	ND
1796	177.6	PUTATIVE TRANSCRIPTION INITIATION FACTOR IIA LARGE SUBUNIT.	tremblnew CAB57938	ND

1797	177.6	SPLICING FACTOR, ARGININE/SERINE-RICH 2 (SPLICING FACTOR SC35) (SC-35) (SPLICING COMPONENT, 35 KD) (PR264 PROTEIN).	swissprot P30352	ND
1798	177.5	DIMETHYLANILINE MONOOXYGENASE-LIKE PROTEIN.	tremblnew CAB43691	ND
1799	177.4	PROTEOPHOSPHOGLYCAN PRECURSOR (FRAGMENT).	sptrembl Q9Y076	ND
1800	177.2	SER/ARG-RELATED NUCLEAR MATRIX PROTEIN.	sptrembl O60585	ND
1801	177.2	PUTATIVE PROLINE-RICH CELL WALL PROTEIN.	sptrembl O82327	ND
1802	177.1	GLYCINE RICH RNA BINDING PROTEIN.	tremblnew CAB56042	ND
1803	177.0	N AMINO ACID TRANSPORT SYSTEM PROTEIN (METHYLTRYPTOPHAN RESISTANCE PROTEIN).	swissprot P38680	ND
1804	176.9	(VSP-3) PRECURSOR.	sptrembl Q39620	ND
1805	176.7	IDI-2 PRECURSOR.	sptrembl O74220	ND
1806	176.6	HYPOTHETICAL 35.1 KD PROTEIN.	tremblnew CAB38264	ND
1807	176.6	FERRIC REDUCTASE.	sptrembl Q9Y861	ND
1808	176.5	ANNEXIN XIV.	sptrembl O59907	ND
1809	176.5	MUCIN PRECURSOR (FRAGMENT).	sptrembl Q62635	ND
1810	176.4	SINGLE-STRANDED DNA-BINDING PROTEIN.	sptrembl P77953	ND
1811	176.4	COSMID C25H3.	sptrembl Q18187	ND
1812	176.3	PROBABLE EUKARYOTIC TRANSLATION INITIATION FACTOR 5 (EIF-5).	swissprot Q09689	ND
1813	176.2	MICROTUBULE ASSOCIATED PROTEIN (DJ406A7.2.1) (MICROTUBULE ASSOCIATED PROTEIN E-MAP-115).	sptrembl Q14244	ND
1814	176.2	(VSP-3) PRECURSOR.	sptrembl Q39620	ND
1815	176.2	HYPOTHETICAL PROTEIN MJ1055.	swissprot Q58455	ND
1816	176.1	HYPOTHETICAL 81.2 KD PROTEIN.	sptrembl O81714	ND
1817	175.8	STRONG SIMILARITY TO HUMAN REV INTERACTING PROTEIN RIP-1.	sptrembl O74777	ND
1818	175.7	PUTATIVE TRANSCRIPTIONAL REGULATOR.	sptrembl O13337	ND
1819	175.5	F23N19.12.	tremblnew	ND

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1820	175.4	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew CAB53729	ND
1821	175.4	VITELLOGENIN PRECURSOR.	sptrembl Q9YGK0	ND
1822	175.3	GP80.	sptrembl P87519	ND
1823	175.3	YEAST REDUCED VIABILITY UPON STARVATION PROTEIN 161 HOMOLOG, IMPLICATED IN CELL GROWTH AND CYTOSKELETAL OR GANISATION.	tremblnew CAA22181	ND
1824	175.1	MUTATOR-LIKE TRANSPOSASE.	tremblnew AAD23701	ND
1825	175.0	MINI-COLLAGEN PRECURSOR (ISOFORM 1).	sptrembl Q00484	ND
1826	174.9	CYTOSKELETON ASSEMBLY CONTROL PROTEIN SLA2P.	sptrembl O93959	ND
1827	174.8	SHP1 PROTEIN.	swissprot P34223	ND
1828	174.7	CYTOCHROME C OXIDASE POLYPEPTIDE IV PRECURSOR (EC 1.9.3.1).	swissprot P04037	ND
1829	174.6	CUT1 PROTEIN.	swissnew P18296	ND
1830	174.6	Extracellular domain of prostate specific membrane antigen (PSMA).	geneseqp W47155	ND
1831	174.1	HYPOTHETICAL PROTEIN (FRAGMENT).	tremblnew CAB61270	ND
1832	173.8	ARABINO GALACTAN-LIKE PROTEIN.	sptrembl Q41071	ND
1833	173.8	PROLINE-RICH.	sptrembl Q94273	ND
1834	173.7	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q42366	ND
1835	173.4	S-PHASE DELAYING PROTEIN 1 (P14 PROTEIN).	sptrembl Q10585	ND
1836	173.4	SERINE-RICH PROTEIN.	sptrembl O94317	ND
1837	173.2	RECF (FRAGMENT).	sptrembl O30497	ND
1838	173.2	BETA-GALACTOSIDASE ALPHA-PEPTIDE (FRAGMENT).	sptrembl Q57170	ND
1839	173.1	Mouse liver cancer-originated culture cell growth factor.	geneseqp W37482	ND
1840	172.9	T. gondii immunogenic protein.	geneseqp Y29060	ND
1841	172.8	156AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YAB4	ND
1842	172.7	AKT2.	sptrembl O93801	ND
1843	172.7	FLGA insert stabilising polypeptide.	geneseqp W79128	ND
1844	172.6	CHORD CONTAINING PROTEIN-1.	tremblnew AAF18437	ND
1845	172.4	UL36.	sptrembl Q65553	ND
1846	172.3	CELL WALL-PLASMA MEMBRANE LINKER	sptrembl Q39353	ND

		PROTEIN.		
1847	172.2	SER/ARG-RELATED NUCLEAR MATRIX PROTEIN.	sptrembl O60585	ND
1848	172.2	F23C8.6 PROTEIN.	tremblnew AAD03134	ND
1849	172.1	WW DOMAIN BINDING PROTEIN 11.	sptrembl O88539	ND
1850	171.8	EXTENSIN.	sptrembl Q06802	ND
1851	171.7	F24O1.18.	sptrembl O48809	ND
1852	171.7	HYPOTHETICAL 30.6 KD PROTEIN IN SCP160-SMC3 INTERGENIC REGION PRECURSOR.	swissprot P47032	ND
1853	171.4	GLUTENIN, LOW MOLECULAR WEIGH1 SUBUNIT PRECURSOR.	swissprot P10385	ND
1854	171.4	HYPOTHETICAL 17.5 KD PROTEIN C22H10.02 IN CHROMOSOME I.	swissprot Q10296	ND
1855	171.2	HYPOTHETICAL 105.9 KD PROTEIN IN RPL15B-GCR3 INTERGENIC REGION.	swissprot P39523	ND
1856	171.2	POSSIBLE PROTEIN METHYLTRANSFERASE.	sptrembl O27940	ND
1857	171.2	BIFUNCTIONAL ASPARTOKINASE/HOMOSE RINE DEHYDROGENASE 1 (AKI-HDI) [INCLUDES: ASPARTOKINASE (EC 2.7.2.4); HOMOSERINE DEHYDROGENASE (EC 1.1.1.3)].	swissnew P27725	ND
1858	171.0	ZETA-CRYSTALLIN.	sptrembl O97764	ND
1859	170.9	CCP PROTEIN.	sptrembl Q9WX60	ND
1860	170.9	36.1 KD PROTEIN IN BUD2- MIF2 INTERGENIC REGION.	swissprot P33324	ND
1861	170.8	WP6 PRECURSOR.	sptrembl Q39492	ND
1862	170.7	HISTIDYL-TRNA SYNTHETASE.	sptrembl O43011	ND
1863	170.6	CODED FOR BY C. ELEGANS CDNA YK127B8.5.	sptrembl Q20648	ND
1864	170.2	TRICHODIENE SYNTHASE (EC 4.1.99.6) (SESQUITERPENE CYCLASE) (TS).	swissprot P27679	ND
1865	170.2	HYPOTHETICAL 46.6 KD PROTEIN.	sptrembl O74477	ND
1866	170.2	HEPB PROTEIN.	sptrembl O22016	ND
1867	170.2	CHITINASE.	sptrembl Q92223	ND
1868	170.2	NADH-UBIQUINONE OXIDOREDUCTASE B12 SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-B12)	swissprot O43676	ND

		(CI-B12).		
1869	170.2	ANTIGEN LPMC-61 (FRAGMENT).	swissprot P15714	ND
1870	170.1	HYPOTHETICAL 96.0 KD PROTEIN.	sptrembl O74365	ND
1871	170.1	HYPOTHETICAL 23.4 KD PROTEIN IN CAJ1-HOM3 INTERGENIC REGION.	swissprot P40033	ND
1872	170.0	ASPARTIC PROTEINASE PRECURSOR (EC 3.4.23.-) (GCSAP).	sptrembl Q00895	ND
1873	169.9	mSOS1 protein.	geneseqp R84638	ND
1874	169.9	PROTEOPHOSPHOGLYCAN PRECURSOR (FRAGMENT).	sptrembl Q9Y076	ND
1875	169.9	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q41814	ND
1876	169.7	HEPATITIS A VIRUS RECEPTOR.	sptrembl O18984	ND
1877	169.7	DNA-DIRECTED RNA POLYMERASE II 13.6 KD POLYPEPTIDE (EC 2.7.7.6) (B13.6).	swissprot P38902	ND
1878	169.7	L4171.3.	sptrembl O15837	ND
1879	169.6	HYPOTHETICAL 20.3 KD PROTEIN C25H1.03 IN CHROMOSOME I.	sptrembl O13978	ND
1880	169.6	ARABINO GALACTAN-PROTEIN.	sptrembl Q9ZT15	ND
1881	169.5	ACROSIN PRECURSOR (EC 3.4.21.10).	swissprot P48038	ND
1882	169.5	785AA LONG HYPOTHETICAL HYUA.	sptrembl Q9YCC8	ND
1883	169.3	COA TRANSFERASE, SUBUNIT B.	tremblnew AAF12248	ND
1884	169.3	LAMININ ALPHA CHAIN PRECURSOR.	swissprot Q00174	ND
1885	169.2	SEQ ID NO 383 from WO9922243.	geneseqp Y19665	ND
1886	168.9	Human heart muscle specific protein	geneseqp W90172	ND
1887	168.7	COMES FROM THIS GENE.	sptrembl O23054	ND
1888	168.7	ACIDIC PROLINE-RICH PROTEIN PRP25 PRECURSOR (FRAGMENT).	swissprot P10164	ND
1889	168.7	METAL HOMEOSTATIS PROTEIN BSD2.	swissprot P38356	ND
1890	168.7	HIGH MOLECULAR MASS NUCLEAR ANTIGEN (FRAGMENT).	sptrembl O57580	ND
1891	168.6	HYPOTHETICAL 26.1 KD PROTEIN C23H3.12C IN CHROMOSOME I.	sptrembl O13942	ND
1892	168.6	Sugar beet chitinase 1.	geneseqp R28150	ND
1893	168.6	KEXIN.	sptrembl O94096	ND
1894	168.6	HYPOTHETICAL PROTEIN (FRAGMENT).	sptrembl Q38962	ND

1895	168.5	124AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YCC9	ND
1896	168.5	PUTATIVE ETHANOLAMINEPHOSPHO TRANSFERASE (EC 2.7.8.1) (ETHPT).	sptrembl O13901	ND
1897	168.5	WP6 PRECURSOR.	sptrembl Q39492	ND
1898	168.4	HEPATITIS A VIRUS CELLULAR RECEPTOR 1 LONG FORM (HEPATITIS A VIRUS CELLULAR RECEPTOR 1 SHORT FORM).	sptrembl O46598	ND
1899	168.1	PUTATIVE TRANSCRIPTION FACTOR.	tremblnew CAB43914	ND
1900	168.0	BAV3 ORF3 product.	geneseqp R75758	ND
1901	167.8	HYPOTHETICAL 27.2 KD PROTEIN IN GLS2-RPL26B INTERGENIC REGION.	swissprot P53220	ND
1902	167.8	SIMILAR TO STF2P.	sptrembl Q06177	ND
1903	167.7	EMBRYONIC/NEONATAL MYOSIN HEAVY CHAIN (FRAGMENT).	sptrembl Q28700	ND
1904	167.7	PROTEIN TRANSLATION FACTOR SUI1 HOMOLOG.	swissprot O48650	ND
1905	167.7	NONF.	sptrembl Q9XDF2	ND
1906	167.6	MAGNESIUM-CHELATASE 60 KD SUBUNIT (MG- PROTOPORPHYRIN IX CHELATASE) (MG- CHELATASE SUBUNIT D).	swissnew P26175	ND
1907	167.5	264AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YCX9	ND
1908	167.5	SERINE/THREONINE PROTEIN KINASE PKAA (EC 2.7.1.-).	swissnew P54739	ND
1909	167.4	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
1910	167.3	HEPATITIS A VIRUS CELLULAR RECEPTOR 1 LONG FORM (HEPATITIS A VIRUS CELLULAR RECEPTOR 1 SHORT FORM).	sptrembl O46598	ND
1911	167.3	CDC2-LIKE PROTEIN KINASE (EC 2.7.1.).	sptrembl O76541	ND
1912	167.1	PUTATIVE SECRETED PROLINE-RICH PROTEIN.	tremblnew CAB63180	ND
1913	167.1	ARGININE/SERINE-RICH PROTEIN.	tremblnew AAF19004	ND
1914	166.9	CUTICLE COLLAGEN 40.	swissprot P34804	ND
1915	166.9	HYPOTHETICAL PROTEIN C30B4.01C IN CHROMOSOME II (FRAGMENT).	sptrembl P87179	ND

1916	166.7	HISTONE H1.	swissprot P37218	ND
1917	166.6	NUM1 PROTEIN.	sptrembl Q40363	ND
1918	166.5	ANTIGEN EM13.	sptrembl Q07840	ND
1919	166.2	Y18D10A.8 PROTEIN.	sptrembl Q9XW13	ND
1920	166.2	PARAMECIUM 3' GENE FRAGMENT FOR G SURFACE ANTIGEN (FRAGMENT).	sptrembl Q94699	ND
1921	166.2	HYPOTHETICAL 6.1 KD PROTEIN C03B1.10 IN CHROMOSOME X.	swissprot Q11116	ND
1922	166.2	OVERLAPPING PROTEIN.	sptrembl O91259	ND
1923	166.2	PUTATIVE SMALL BASIC PROTEIN.	sptrembl O55724	ND
1924	166.1	T01B7.8 PROTEIN.	sptrembl Q22048	ND
1925	166.1	50S RIBOSOMAL PROTEIN L34.	sptrembl O21276	ND
1926	166.0	MUCIN (FRAGMENT).	sptrembl Q28501	ND
1927	166.0	34 KD ANTIGENIC PROTEIN.	swissprot Q04959	ND
1928	165.9	AQUAPORIN-3.	sptrembl Q9YH65	ND
1929	165.7	CGI-41 PROTEIN.	sptrembl Q9Y358	ND
1930	165.6	HIGH MOBILITY GROUP-LIKE NUCLEAR PROTEIN 2.	swissprot P32495	ND
1931	165.6	PGRS-FAMILY PROTEIN.	sptrembl O53395	ND
1932	165.5	PUTATIVE ZINC METALLOPEPTIDASE (FRAGMENT).	tremblnew CAB54809	ND
1933	165.5	Human VEGF-C truncated fragment 4.	geneseqp W86225	ND
1934	165.5	SALIVARY GLUE PROTEIN SGS-3 PRECURSOR.	swissprot P13728	ND
1935	165.4	U2 SMALL NUCLEAR RIBONUCLEOPROTEIN AUXILIARY FACTOR 35 KD SUBUNIT RELATED-PROTEIN 1.	swissprot Q15695	ND
1936	165.4	N2,N2-DIMETHYLGUANOSINE TRNA METHYLTRANSFERASE.	tremblnew CAA20101	ND
1937	165.2	180AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YBV8	ND
1938	165.2	ADK1.	sptrembl Q9ZWB3	ND
1939	165.1	D2089.1 PROTEIN.	sptrembl O01159	ND
1940	165.0	Y44E3A.5 PROTEIN.	tremblnew AAC78231	ND
1941	165.0	C15A11.1 PROTEIN.	sptrembl Q93208	ND
1942	164.9	EXTENSIN-LIKE PROTEIN.	tremblnew CAB40769	ND
1943	164.8	RETINA-DERIVED POU-DOMAIN FACTOR-1 (FRAGMENT).	tremblnew AAC83404	ND

1944	164.8	203AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YAY3	ND
1945	164.7	HEPATITIS A VIRUS CELLULAR RECEPTOR 1 LONG FORM (HEPATITIS A VIRUS CELLULAR RECEPTOR 1 SHORT FORM).	sptrembl O46598	ND
1946	164.7	HYPOTHETICAL 79.1 KD PROTEIN.	sptrembl O60161	ND
1947	164.7	UNKNOWN PROTEIN.	sptrembl O04210	ND
1948	164.6	INTESTINAL MUCIN (FRAGMENT).	sptrembl Q14883	ND
1949	164.6	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
1950	164.3	DBP-5 NUCLEAR PROTEIN.	sptrembl Q14120	ND
1951	164.3	HYPOTHETICAL 45.9 KD PROTEIN RV2067C.	swissnew Q10678	ND
1952	164.2	ALPHA/BETA-GLIADIN CLONE PW1215 PRECURSOR (PROLAMIN).	swissprot P04726	ND
1953	164.2	NONSTRUCTURAL PROTEIN 1 (FRAGMENT).	sptrembl O10460	ND
1954	164.2	VICILIN-LIKE PROTEIN PRECURSOR (FRAGMENT).	tremblnew AAF18269	ND
1955	164.1	MITOCHONDRIAL PROTEIN CYT-4.	swissprot P47950	ND
1956	164.1	134AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9Y9Q5	ND
1957	164.1	SIMILARITY TO DROSOPHILA HOMEOTIC GENE REGULATOR BRM.	sptrembl P91094	ND
1958	164.0	PROBABLE TRANSLATION INITIATION FACTOR EIF-2B DELTA SUBUNIT (EIF-2B GDP-GTP EXCHANGE FACTOR).	swissprot Q09924	ND
1959	163.9	S2 RIBOSOMAL PROTEIN.	sptrembl O84687	ND
1960	163.9	COSMID C34D4.	sptrembl Q18444	ND
1961	163.8	HEPATITIS A VIRUS RECEPTOR.	sptrembl O18984	ND
1962	163.8	PREDICTED INTEGRAL MEMBRANE PROTEIN.	sptrembl O96177	ND
1963	163.8	Human bcl2 proto-oncogene wild type protein fragment 1.	geneseqp Y21104	ND
1964	163.7	ATP SYNTHASE GAMMA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P49377	ND
1965	163.7	TIJ1.6 PROTEIN.	sptrembl Q9ZPH2	ND
1966	163.6	PUTATIVE EXTENSIN.	sptrembl Q9ZNU3	ND
1967	163.6	F25C8.4 PROTEIN.	sptrembl Q9XV68	ND
1968	163.5	PUTATIVE TRANSCRIPTIONAL REGULATOR, ZINC-	tremblnew CAA92308	ND

		FINGER, BINUCLEAR CLUSTERDOMAIN.		
1969	163.3	HYPOTHETICAL 29.3 KD PROTEIN (ORF92).	swissprot O10341	ND
1970	163.3	LUN (LUN PROTEIN).	sptrembl O54743	ND
1971	163.1	DOLICHYL-DIPHOSPHOOLIGOSACCHARIDE--PROTEIN GLYCOSYLTRANSFERASE ALPHA SUBUNIT PRECURSOR (EC 2.4.1.119) (OLIGOSACCHARYL TRANSFERASE ALPHA SUBUNIT) (OLIGOSACCHARYL TRANSFERASE 64 KD SUBUNIT).	swissprot P41543	ND
1972	163.0	Human alpha-1 (XVIII) chain NC1 domain variant HU18(NC1-493).	geneseqp W92294	ND
1973	162.9	CHROMOSOME XII READING FRAME ORF YLR002C.	sptrembl Q07896	ND
1974	162.8	DRPLA.	sptrembl O35126	ND
1975	162.8	COLLAGEN ALPHA 1(VIII) CHAIN PRECURSOR.	swissprot Q00780	ND
1976	162.7	DIACYLGLYCEROL CHOLINEPHOSPHOTRANSFERASE (EC 2.7.8.2) (SN-1,2-DIACYLGLYCEROL CHOLINEPHOSPHOTRANSFERASE) (CHOPT).	swissprot P17898	ND
1977	162.7	Maize cinnamyl alcohol dehydrogenase.	geneseqp Y05667	ND
1978	162.7	SALIVARY GLUE PROTEIN SGS-3 PRECURSOR.	swissprot P13729	ND
1979	162.6	FROM BASES 1830199 TO 1840304 (SECTION 160 OF 400) OF THE COMPLETE GENOME (SECTION 160 OF 400).	sptrembl P77788	ND
1980	162.5	SKIN SECRETORY PROTEIN XP2 PRECURSOR (APEG PROTEIN).	swissnew P17437	ND
1981	162.5	PRION PROTEIN PRECURSOR (FRAGMENT).	tremblnew AAD47045	ND
1982	162.5	HYPOTHETICAL 27.4 KD PROTEIN IN H111-CDC8 INTERGENIC REGION.	swissprot P47115	ND
1983	162.5	HYPOTHETICAL 53.7 KD PROTEIN IN SGA1-KTR7 INTERGENIC REGION.	swissprot P40501	ND
1984	162.4	SIB 124 intestinal mucin.	geneseqp R12601	ND
1985	162.4	ALPHA-GLIADIN STORAGE PROTEIN.	sptrembl Q41529	ND
1986	162.4	GASTRIC MUCIN	sptrembl Q29071	ND

		(FRAGMENT).		
1987	162.3	BRANCHED-CHAIN AMINO ACID AMINOTRANSFERASE, MITOCHONDRIAL PRECURSOR (EC 2.6.1.42) (BCAT(M)).	swissprot O15382	ND
1988	162.2	PENICILLIN-BINDING PROTEIN 1.	tremblnew AAF10059	ND
1989	162.1	N-WASP.	sptrembl O00401	ND
1990	162.1	REGULATORY PROTEIN E2.	sptrembl O56937	ND
1991	162.0	HYPOTHETICAL 25.3 KD PROTEIN IN TIM23-ARE2 INTERGENIC REGION.	swissprot P53721	ND
1992	162.0	Hepatitis B virus E antigen (wild-type).	geneseqp R98878	ND
1993	162.0	MYOCYTE ENHANCER FACTOR 2A (FRAGMENT).	sptrembl O97865	ND
1994	162.0	THIOREDOXIN.	swissprot P42115	ND
1995	161.9	M. tuberculosis immunogenic polypeptide TbH-29.	geneseqp W81726	ND
1996	161.8	PROLINE RICH PROTEIN.	sptrembl O22514	ND
1997	161.5	VIRION PROTEIN.	sptrembl P89479	ND
1998	161.3	ORF1 (FRAGMENT).	sptrembl Q9W9H9	ND
1999	161.2	Artificial recognition sequence 5.	geneseqp W43028	ND
2000	161.2	LOW MOLECULAR WEIGHT GLUTENIN (FRAGMENT).	sptrembl Q41552	ND
2001	161.2	HYPOTHETICAL 20.8 KD PROTEIN.	sptrembl O53905	ND
2002	161.1	ORFAB.	sptrembl Q9X982	ND
2003	161.1	HEPATITIS A VIRUS CELLULAR RECEPTOR 1 LONG FORM (HEPATITIS A VIRUS CELLULAR RECEPTOR 1 SHORT FORM).	sptrembl O46597	ND
2004	161.0	LOW MOLECULAR WEIGHT GLUTENIN (FRAGMENT).	sptrembl Q41551	ND
2005	160.9	Intestinal mucin deduced from clone SMUC 87.	geneseqp R07674	ND
2006	160.9	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q42366	ND
2007	160.8	PUTATIVE SPLICING FACTOR, ARGININE/SERINE-RICH 2 (SPLICING FACTOR SC35) (SC-35) (SPLICING COMPONENT1, 35 KD)	swissprot Q09511	ND
2008	160.8	ACETAMIDASE REGULATORY PROTEIN.	swissprot P15699	ND
2009	160.7	GAGA FACTOR CLASS A-	sptrembl O76940	ND

		ISOFORM.		
2010	160.6	Enzyme donor polypeptide, ED8.	geneseqp R11772	ND
2011	160.6	PRP2.	geneseqp R29163	ND
2012	160.4	PUTATIVE SNRNP PROTEIN.	tremblnew CAB45810	ND
2013	160.4	PHOSPHATE PERMEASE.	sptrembl O74639	ND
2014	160.4	ORF68.	tremblnew AAF05182	ND
2015	160.3	LARGEST SUBUNIT OF THE RNA POLYMERASE II COMPLEX.	sptrembl Q9XZS2	ND
2016	160.3	TOLA PROTEIN.	sptrembl Q9WWX1	ND
2017	160.3	HYPOTHETICAL 81.2 KD PROTEIN.	sptrembl O81714	ND
2018	160.3	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG (PROTEIN CEX) (FRAGMENT).	swissprot P40603	ND
2019	160.2	F22O2.16.	sptrembl Q9ZWD5	ND
2020	160.2	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT (EC 2.7.7.6) (RPB1) (FRAGMENT).	swissprot P11414	ND
2021	160.1	SALIVARY PROTEIN MSG2. ISOFORM ALPHA PRECURSOR.	sptrembl O09133	ND
2022	160.1	121AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YAL7	ND
2023	160.0	C49F8.1 PROTEIN.	sptrembl Q18710	ND
2024	160.0	PUTATIVE TRANSCRIPTION INITIATION FACTOR TFIID SUBUNIT.	tremblnew CAB65604	ND
2025	160.0	LET-653 MUCIN LIKE PROTEIN.	sptrembl Q27394	ND
2026	159.9	Rhodococcus rhodochrous LMGP-18079 cis-epoxysuccinate hydrolase.	geneseqp Y04477	ND
2027	159.9	REGULATORY PROTEIN E2.	swissprot P06422	ND
2028	159.8	GAMMA-GLIADIN (GLIADIN B-III) (FRAGMENT).	swissprot P04730	ND
2029	159.7	ORF 1.	sptrembl Q96853	ND
2030	159.7	FATTY ACID COA LIGASE.	sptrembl Q60135	ND
2031	159.4	EF-HAND PROTEIN.	sptrembl Q09196	ND
2032	159.4	PROLINE RICH PROTEIN PRECURSOR.	sptrembl Q43558	ND
2033	159.4	HYPOTHETICAL 37.4 KD PROTEIN.	sptrembl Q25304	ND
2034	159.4	PUTATIVE PROLINE-RICH CELL WALL PROTEIN.	sptrembl O82327	ND
2035	159.3	IMMEDIATE-EARLY	swissprot P33479	ND

		PROTEIN IE180.		
2036	159.2	EARLY NODULIN 20 PRECURSOR (N-20).	swissprot P93329	ND
2037	159.2	Candida CaRho1 protein.	geneseqp W30379	ND
2038	159.1	SALIVARY GLUE PROTEIN SGS-3 PRECURSOR.	swissprot P02840	ND
2039	159.0	PUTATIVE PROLINE-RICH CELL WALL PROTEIN.	sptrembl O82327	ND
2040	158.9	PROLINE RICH PROTEIN.	sptrembl Q91810	ND
2041	158.9	RETINA-DERIVED POU- DOMAIN FACTOR-1 (FRAGMENT).	tremblnew AAC83404	ND
2042	158.9	HYPOTHETICAL 9.3 KD PROTEIN.	sptrembl O59754	ND
2043	158.8	Hepatitis A virus receptor.	geneseqp R92803	ND
2044	158.8	BETA-LACTAMASE PRECURSOR (EC 3.5.2.6) (CEPHALOSPORINASE).	swissnew O05465	ND
2045	158.7	FISSION YEAST DNA FOR CHROMOSOME II COSMID 1228 SEQUENCE.	sptrembl P78948	ND
2046	158.6	SERUM OPACITY FACTOR PRECURSOR (FRAGMENT).	tremblnew AAD31504	ND
2047	158.6	F17L24.2 PROTEIN.	sptrembl Q9ZQJ6	ND
2048	158.6	F24J5.15 PROTEIN.	tremblnew AAD49981	ND
2049	158.5	SMUC-41 intestinal mucin.	geneseqp R12535	ND
2050	158.4	ULTRA HIGH SULFUR KERATIN.	sptrembl O75690	ND
2051	158.3	MUCIN (FRAGMENT).	sptrembl Q28501	ND
2052	158.3	HYPOTHETICAL 35.1 KD PROTEIN.	tremblnew CAB38264	ND
2053	158.2	ORF-1 protein sequence from BamHI fragment of HVT.	geneseqp W03546	ND
2054	158.1	(VSP-3) PRECURSOR.	sptrembl Q39620	ND
2055	158.1	PUTATIVE TRNA-SPLICING ENDONUCLEASE SUBUNIT.	sptrembl O74908	ND
2056	158.1	INNER CENTROMERE PROTEIN INCENP.	sptrembl Q9WU62	ND
2057	158.0	COLLAGEN TYPE XVIII (FRAGMENT).	tremblnew BAA34201	ND
2058	158.0	HYPOTHETICAL PROTEIN C31G5.01 IN CHROMOSOME I (FRAGMENT).	sptrembl O14102	ND
2059	157.9	PROFILIN P.	swissprot P18322	ND
2060	157.9	SIMILAR TO BETA- CHIMAERIN	sptrembl O01825	ND
2061	157.8	PUTATIVE TETR TRANSCRIPTIONAL REGULATOR.	tremblnew CAB46789	ND
2062	157.8	CD27L RECEPTOR PRECURSOR (T-CELL ACTIVATION ANTIGEN CD27).	swissprot P41272	ND
2063	157.7	EXTENSIN CLASS I	sptrembl Q41707	ND

		PROTEIN PRECURSOR (EXTENSIN-LIKE PROTEIN).		
2064	157.6	GASTRIC MUCIN (FRAGMENT).	sptrembl Q29070	ND
2065	157.6	F24J5.8 PROTEIN.	tremblnew AAD49974	ND
2066	157.6	CHIMERIC AFGP/TRYPsinogen-LIKE SERINE PROTEASE PRECURSOR (FRAGMENT).	sptrembl Q9W6J8	ND
2067	157.4	5'-NUCLEOTIDASE (NT5).	sptrembl O29385	ND
2068	157.4	SIGNAL RECOGNITION PARTICLE 72 KD PROTEIN HOMOLOG (SRP72).	swissprot O59787	ND
2069	157.4	HYPOTHETICAL 89.3 KD PROTEIN.	sptrembl O96234	ND
2070	157.3	MYOSIN I HEAVY CHAIN.	sptrembl Q00647	ND
2071	157.2	W02A2.5 PROTEIN.	sptrembl Q9XUB4	ND
2072	157.2	GONADOTROPIN INDUCIBLE TRANSCRIPTION REPRESSOR-1 (FRAGMENT).	tremblnew BAA86987	ND
2073	157.2	HYPOTHETICAL 17.6 KD PROTEIN IN NPR1-RPS3 INTERGENIC REGION.	swissprot P53880	ND
2074	157.1	HYPOTHETICAL 33.9 KD ZINC FINGER PROTEIN C14C4.06C IN CHROMOSOME 1.	sptrembl O13713	ND
2075	157.1	GERM CELL SPECIFIC Y- BOX BINDING PROTEIN.	sptrembl Q9Y2T7	ND
2076	157.0	POLY-UBIQUITIN.	sptrembl O59964	ND
2077	157.0	MULTIDOMAIN PRESYNAPTIC CYTOMATRIX PROTEIN PICCOLO.	tremblnew AAF07822	ND
2078	157.0	GASTRIC MUCIN (FRAGMENT).	sptrembl Q29070	ND
2080	156.9	PROBABLE PROTEIN DISULFIDE ISOMERASE ER- 60 PRECURSOR (EC 5.3.4.1) (ERP60) (58 KD MICROSOMAL PROTEIN) (P58) (HIP-70) (Q-2).	swissprot P11598	ND
2081	156.9	HUMAN DNA SEQUENCE FROM CLONE 1177E19 ON CHROMOSOME 1P36.12 36.31. CONTAINS THE 3' PART OF THE DNA- BINDING ZINC FINGER PROTEIN RIZ GENE. ESTS. AN STS, GSSS AND A CPG ISLAND.	tremblnew CAB37643	ND
2082	156.8	R02F11.1 PROTEIN.	sptrembl O16364	ND

2083	156.8	YSY6 PROTEIN.	swissprot P38374	ND
2084	156.7	PUTATIVE RNA-BINDING PROTEIN.	sptrembl O94260	ND
2085	156.7	EARLY NODULIN 20 PRECURSOR (N-20).	swissprot P93329	ND
2086	156.6	COAT PROTEIN AV1, AV2, AV3, REPLICATION-ASSOCIATED PROTEIN AC1, AC2, AC3, AC4 AND AC5 GENES, COMPLETE CDS.	sptrembl Q88548	ND
2087	156.6	121AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YAL7	ND
2088	156.6	HYDROXYNEUROSPORENE DEHYDROGENASE.	sptrembl Q50893	ND
2089	156.5	Mouse signal transduction protein GIB-7.	geneseqp R80164	ND
2090	156.5	ERPROT 213-21.	sptrembl O00302	ND
2091	156.5	COSMID T09D3.	sptrembl Q23036	ND
2092	156.4	Human secreted protein #3.	geneseqp Y36131	ND
2093	156.3	PUTATIVE ZINC FINGER TRANSCRIPTION FACTOR OVO1.	sptrembl Q9WTJ2	ND
2094	156.3	GTP-BINDING PROTEIN (RAN) (FRAGMENT).	sptrembl O13494	ND
2095	156.3	GAMETOGENESIS EXPRESSED PROTEIN GEG-154.	swissprot P50636	ND
2096	156.2	OOCYTE ZINC FINGER PROTEIN XLCOF8.4 (FRAGMENT).	swissprot P18753	ND
2097	156.2	HYPOTHETICAL 14.1 KD PROTEIN IN CYR1-OST1 INTERGENIC REGION.	swissprot P47081	ND
2098	156.2	HYPOTHETICAL 118.4 KD PROTEIN IN BAT2-DAL5 INTERGENIC REGION PRECURSOR.	swissprot P47179	ND
2099	156.2	PR-VBETA1.	sptrembl Q64371	ND
2100	156.1	HYPOTHETICAL 50.0 KD PROTEIN.	sptrembl Q04934	ND
2101	156.1	Mycobacterium species protein sequence 50B.	geneseqp Y04998	ND
2102	156.1	COBALAMIN SYNTHESIS PROTEIN.	sptrembl O30787	ND
2103	156.0	ZINC FINGER PROTEIN.	sptrembl Q24081	ND
2104	156.0	GLUCOSE-1-PHOSPHATE ADENYLYLTRANSFERASE PRECURSOR (EC 2.7.7.27) (ADP-GLUCOSE SYNTHASE) (ADP-GLUCOSE PYROPHOSPHORYLASE).	sptrembl Q42702	ND
2105	156.0	CTD-BINDING SR-LIKE PROTEIN RA1.	sptrembl Q63624	ND

2106	156.0	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
2107	156.0	HYPOTHETICAL 9.2 KD PROTEIN.	sptrembl O59799	ND
2108	155.9	YUKL PROTEIN.	sptrembl P71076	ND
2109	155.9	DRPLA PROTEIN.	sptrembl P70200	ND
2110	155.8	SIMILAR TO THE MYO-TYPE 'HELIX-LOOP-HELIX' DNA-BINDING DOMAIN SIGNATURE.	sptrembl Q20941	ND
2111	155.8	CHITINASE PRECURSOR.	sptrembl Q42421	ND
2112	155.8	WISKOTT-ALDRICH SYNDROME PROTEIN HOMOLOG 1.	sptrembl O36027	ND
2113	155.8	GLUTENIN, HIGH MOLECULAR WEIGHT SUBUNIT DX5 PRECURSOR.	swissprot P10388	ND
2114	155.7	F31E9.5 PROTEIN.	sptrembl O45429	ND
2115	155.7	DRPLA PROTEIN.	sptrembl Q99495	ND
2116	155.6	ORF YOL105C.	sptrembl Q12215	ND
2117	155.6	SEA ANEMONE TOXIN 46 aa	pdb 1ATX	ND
2118	155.6	HYPOTHETICAL 35.8 KD PROTEIN.	sptrembl O60096	ND
2119	155.6	PROTEOPHOSPHOGLYCAN PRECURSOR (FRAGMENT).	sptrembl Q9Y076	ND
2120	155.6	SPERM HISTONE P2 PRECURSOR (PROTAMINE P2).	swissprot P35298	ND
2121	155.4	GLUE PROTEIN.	sptrembl Q27929	ND
2122	155.4	2,3-DIHYDROXYBIPHENYL DIOXYGENASE.	sptrembl Q50914	ND
2123	155.4	HYPOTHETICAL 63.8 KD PROTEIN IN GUT1-RIM1 INTERGENIC REGION PRECURSOR.	swissprot P38739	ND
2124	155.4	C11G6.3 PROTEIN.	sptrembl Q17909	ND
2125	155.4	ZINC FINGER PROTEIN 41 (ZFP-41) (CTFIN92) (FRAGMENT)	swissprot Q02526	ND
2126	155.3	DNAJ.	sptrembl O18427	ND
2127	155.2	ESTS AU065732(E51179).	tremblnew BAA85201	ND
2128	155.1	KIAA0691 PROTEIN.	sptrembl O75175	ND
2129	155.1	Mycobacterium species protein sequence 50B.	geneseq Y04998	ND
2130	155.1	GLUCOAMYLASE.	tremblnew AAC49609	ND
2131	155.1	W02A2.5 PROTEIN.	sptrembl Q9XUB4	ND
2132	155.0	FOOT PROTEIN 1 PRECURSOR (FRAGMENT).	sptrembl O61476	ND
2133	154.9	INSULIN-LIKE GROWTH FACTOR PRECURSOR (IGF) (FRAGMENT).	swissprot P22618	ND
2134	154.8	HYPOTHETICAL 67.5 KD	swissprot P53735	ND

		PROTEIN IN DBP6-COQ2 INTERGENIC REGION.		
2135	154.8	PUTATIVE MEMBRANE PROTEIN.	tremblnew AAF23068	ND
2136	154.6	PROBABLE SERINE HYDROXYMETHYLTRANSFERASE, CYTOSOLIC (EC 2.1.2.1) (SERINE METHYLASE) (GLYCINE HYDROXYMETHYLTRANSFERASE) (SHMT).	swissprot Q10104	ND
2137	154.5	LD-VP80.	sptrembl Q9YMM2	ND
2138	154.5	C45B11.4 PROTEIN.	sptrembl Q18640	ND
2139	154.5	NEUROFILAMENT TRIPLET H PROTEIN (200 KD NEUROFILAMENT PROTEIN) (NF-H).	swissprot P19246	ND
2140	154.4	PUTATIVE TRANSMEMBRANE PROTEIN.	tremblnew CAB59607	ND
2141	154.4	ORF YOR053W.	sptrembl Q08428	ND
2142	154.2	A. oryzae DEBY10.3 locus protein sequence.	geneseqp Y39872	ND
2143	154.2	HYPOTHETICAL 57.2 KD PROTEIN.	sptrembl O68872	ND
2144	154.1	PROBABLE ASPARAGINYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.22) (ASPARAGINE--TRNA LIGASE) (ASNRS).	swissprot Q19722	ND
2145	154.1	ORF_ID:O224#4.	sptrembl Q9ZBC2	ND
2146	154.1	F54B11.1 PROTEIN.	sptrembl Q20744	ND
2147	154.1	Y45F10B.3 PROTEIN.	sptrembl O62468	ND
2148	154.1	EXTENSIN CLASS II PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) (HRGP) (TOML-4).	sptrembl Q09084	ND
2149	154.0	CHITINASE.	sptrembl Q92223	ND
2150	153.9	HIV A30S protein sequence #1.	geneseqp W99832	ND
2151	153.9	T2K10.7 PROTEIN.	sptrembl Q9ZUJ1	ND
2152	153.9	HYPOTHETICAL 58.7 KD PROTEIN.	sptrembl O94644	ND
2153	153.9	ORF2 (FRAGMENT).	sptrembl Q9WAZ6	ND
2154	153.8	HYPOTHETICAL 61.1 KD PROTEIN (FRAGMENT).	tremblnew CAB63715	ND
2155	153.7	BRAIN-2 GENE.	sptrembl Q73628	ND
2156	153.7	RIBOSOMAL PROTEIN LARGE SUBUNIT 2.	sptrembl Q99868	ND
2157	153.6	DJ1042K10.4 (NOVEL PROTEIN) (FRAGMENT).	sptrembl O95512	ND

2158	153.6	UNKNOWN PROTEIN.	sptrembl O04210	ND
2159	153.6	F28C1.1 PROTEIN.	sptrembl Q19854	ND
2160	153.6	HYPOTHETICAL 25.4 KD PROTEIN C4G9.14 IN CHROMOSOME I.	swissprot Q10244	ND
2161	153.6	INSULIN-LIKE GROWTH FACTOR IB PRECURSOR (IGF-IB) (SOMATOMEDIN C).	swissprot P05019	ND
2162	153.6	POLLEN ALLERGEN AMB P 5-A PRECURSOR (AMB P V- A).	swissprot P43174	ND
2163	153.6	159AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YDR4	ND
2164	153.6	PHOSPHOLIPASE A2 INHIBITOR I PRECURSOR (PLI-I).	sptrembl O57690	ND
2165	153.5	COSMID F46H5.	sptrembl P90878	ND
2166	153.5	STR1 (suppressor of telomeric repression-1) protein.	geneseqp R95601	ND
2167	153.4	111AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YDA7	ND
2168	153.4	GATA TRANSCRIPTION FACTOR 3.	sptrembl O49742	ND
2169	153.4	HYPOTHETICAL 32.8 KD PROTEIN (FRAGMENT).	tremblnew CAB59245	ND
2170	153.4	GTL2 GENE.	sptrembl O48591	ND
2171	153.3	COSMID C37C3.	sptrembl Q22919	ND
2172	153.3	STEERIN-1 PROTEIN (FRAGMENT).	tremblnew CAB66088	ND
2173	153.3	PROTEIN-TYROSINE PHOSPHATASE, PUTATIVE.	tremblnew AAF11466	ND
2174	153.2	Amino acid sequence of human desaturase gene contig 2	geneseqp W95509	ND
2175	153.2	GLYCOPROTEIN G-2 (FRAGMENT).	tremblnew CAB65677	ND
2176	153.2	TONB PROTEIN.	tremblnew CAB53383	ND
2177	153.1	BRAIN-2 GENE.	sptrembl O73628	ND
2178	153.1	APEX NUCLEASE (FRAGMENT).	sptrembl O97870	ND
2179	153.1	HYPOTHETICAL 57.2 KD PROTEIN.	sptrembl O68872	ND
2180	153.0	H28G03.2 PROTEIN.	tremblnew AAC67404	ND
2181	153.0	UL47 PRODUCT HOMOLOG.	tremblnew BAA82943	ND
2182	152.9	ACUTE MYELOID LEUKEMIA 2 PROTEIN (ONCOGENE AML-2) (CORE-BINDING FACTOR, ALPHA 3 SUBUNIT) (CBF- ALPHA 3) (POLYOMAVIRUS ENHANCER BINDING PROTEIN 2 ALPHA C1 SUBUNIT) (PEBP2-ALPHA	sptrembl Q13761	ND

		C1).		
2183	152.9	APOPTIN (VP3).	swissprot P54095	ND
2184	152.8	SERINE-RICH PROTEIN.	sptrembl O94317	ND
2185	152.6	ENVELOPE PROTEIN (FRAGMENT).	sptrembl Q85475	ND
2186	152.6	DIACYLGLYCEROL ACYLCOA ACYLTRANSFERASE.	tremblnew AAF19345	ND
2187	152.4	K06A9.1 PROTEIN.	sptrembl P91365	ND
2188	152.4	F7F22.14.	tremblnew AAF24528	ND
2189	152.4	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew AAF09626	ND
2190	152.4	ARABINO GALACTAN- PROTEIN.	sptrembl Q9ZT15	ND
2191	152.4	NODULATION PROTEIN L (EC 2.3.1.-).	swissprot P28266	ND
2192	152.4	TCJ2.	sptrembl Q26952	ND
2193	152.3	HQP0376 PROTEIN.	tremblnew AAF23355	ND
2194	152.3	LAMININ ALPHA-2 CHAIN PRECURSOR (LAMININ M CHAIN) (MEROSIN HEAVY CHAIN).	swissprot Q60675	ND
2195	152.3	GAGA-581 ADF-2 ISOFORM.	sptrembl O18349	ND
2196	152.2	FLGA insert stabilising polypeptide.	geneseqp W79128	ND
2197	152.2	Recombinant transcription enhancer factor 1 GL2/3/5.	geneseqp W58603	ND
2198	152.1	ACROSIN PRECURSOR (EC 3.4.21.10).	swissprot P48038	ND
2199	152.1	SLIME MOLD (D.DISCOIDEUM) TRANSPOSON DIRS-1. COMPLETE, CLONE SB41.	sptrembl O96848	ND
2200	152.0	TRANSCRIPTION TERMINATION FACTOR 1 (TRANSCRIPTION FACTOR).	sptrembl Q62187	ND
2201	152.0	AGOUTI SWITCH PROTEIN PRECURSOR (AGOUTI SIGNALING PROTEIN) (FRAGMENT).	swissnew P79407	ND
2202	152.0	RNA POLYMERASE II SUBUNIT 9.	sptrembl O74635	ND
2203	151.9	DIVISION ABNORMALLY DELAYED PROTEIN PRECURSOR (DALLY PROTEIN).	swissprot Q24114	ND
2204	151.8	ANTI-DEATH PROTEIN.	sptrembl O75353	ND
2205	151.7	HYPOTHETICAL PROTEIN (ORF270/2) (FRAGMENT).	sptrembl Q05897	ND
2206	151.7	PUTATIVE PHOSPHATE/PHOSPHOENO LPYRUVATE	tremblnew AAD20711	ND

		TRANSLOCATOR PROTEIN.		
2207	151.7	COSMID R11G11.	sptrembl O16953	ND
2208	151.7	W05B2.6 PROTEIN.	sptrembl Q9XVG3	ND
2209	151.6	F3O9.1 PROTEIN.	tremblnew AAD34676	ND
2210	151.6	ALTERNATIVE OXIDASE (FRAGMENT).	sptrembl Q26681	ND
2211	151.6	CYC07 PROTEIN,S-PHASE SPECIFIC (FRAGMENT).	sptrembl Q42008	ND
2212	151.6	SECRETORY MUCIN MUC6 (FRAGMENT).	sptrembl O15329	ND
2213	151.6	PROBABLE B-TYPE CYTOCHROME.	swissprot P41955	ND
2214	151.5	PROTEIN C4.	swissprot P17370	ND
2215	151.5	PROTOCOLADHERIN 5 (FRAGMENT).	sptrembl O08964	ND
2216	151.4	KIAA0442 PROTEIN (FRAGMENT).	sptrembl Q9Y4F2	ND
2217	151.4	F46B3.2 PROTEIN.	sptrembl Q9XV16	ND
2218	151.3	SMUC-41 intestinal mucin.	geneseqp R12535	ND
2219	151.3	HYPOTHETICAL 62.3 KD PROTEIN.	tremblnew CAB55180	ND
2220	151.3	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT (EC 2.7.7.6) (RPB1) (FRAGMENT).	swissprot P11414	ND
2221	151.3	HTRA2-BETA (TRANSFORMER-2-BETA ISOFORM 3).	sptrembl Q15815	ND
2222	151.2	ALLERGEN.	sptrembl O74682	ND
2223	151.2	ZINC FINGER PROTEIN 37 (ZFP-37) (MALE GERM CELL SPECIFIC ZINC FINGER PROTEIN).	swissprot P17141	ND
2224	151.2	I71-7 PRECURSOR.	sptrembl Q27320	ND
2225	151.1	HYPOTHETICAL 33.4 KD PROTEIN IN RPL44B-RPC10 INTERGENIC REGION PRECURSOR.	swissprot P38844	ND
2226	151.1	TRANSLATIONALLY CONTROLLED TUMOR PROTEIN HOMOLOG (TCTP).	swissprot Q10344	ND
2227	151.1	F4P06.	sptrembl P79027	ND
2228	151.1	PRE-S1, PRE-S2 AND S.	sptrembl Q39887	ND
2229	151.0	HYPOTHETICAL 15.5 KD PROTEIN.	sptrembl Q62882	ND
2230	151.0	EXCRETORY/SECRETORY MUCIN MUC-4.	tremblnew AAD49341	ND
2231	151.0	PROBABLE ATP-DEPENDENT RNA HELICASE DBP3 (HELICASE CA3).	swissprot P20447	ND
2232	151.0	HYPOTHETICAL 57.2 KD	sptrembl O68872	ND

		PROTEIN.		
2233	151.0	F43G6.9 PROTEIN.	sptrembl Q20374	ND
2234	151.0	GAG-POL POLYPROTEIN.	tremblnew AAF20282	ND
2235	150.9	HYPOTHETICAL OXIDOREDUCTASE IN FHUD-OPUBD INTERGENIC REGION.	swissprot O32223	ND
2236	150.9	PAC CLONE DJ1110N13 FROM 7P21-P22, COMPLETE SEQUENCE (FRAGMENT).	sptrembl O43376	ND
2237	150.9	ALDOSE EPIMERASE FAMILY PROTEIN.	tremblnew AAF10324	ND
2238	150.9	OSMOTIN-LIKE PROTEIN PRECURSOR.	swissnew Q41350	ND
2239	150.8	W05G11.6 PROTEIN.	sptrembl O44906	ND
2240	150.8	MYOSIN I HEAVY CHAIN KINASE (FRAGMENT).	sptrembl Q94488	ND
2241	150.8	ORF3.	sptrembl Q9YL22	ND
2242	150.8	PRP4.	geneseqp R29166	ND
2243	150.8	Yeast ribosomal protein S7.	geneseqp W36115	ND
2244	150.7	Porphorymonas gingivalis protein PG106.	geneseqp Y34446	ND
2245	150.7	RRNA ADENINE N-6- METHYLTRANSFERASE (EC 2.1.1.48) (MACROLIDE- LINCOSAMIDE- STREPTOGRAMIN B RESISTANCE PROTEIN) (ERYTHROMYCIN RESISTANCE PROTEIN) (NMT).	swissnew P07287	ND
2246	150.7	HYPOTHETICAL 10.5 KD PROTEIN C31A2.13C IN CHROMOSOME I.	swissprot Q09730	ND
2247	150.7	Human herpesvirus 8 (HHV-8) macrophage inhibitory protein- 1A.	geneseqp W40104	ND
2248	150.7	SPLICING FACTOR, ARGININE/SERINE-RICH 10 (PUTATIVE MYELIN REGULATORY FACTOR 1) (MRF-1) (FRAGMENT).	swissprot Q60701	ND
2249	150.7	MEGF6.	sptrembl O88281	ND
2250	150.6	NLPD PROTEIN.	tremblnew CAA06881	ND
2251	150.6	MITOCHONDRIAL PHOSPHATE CARRIER PROTEIN (PHOSPHATE TRANSPORT PROTEIN) (PTP) (MITOCHONDRIAL IMPORT RECEPTOR) (P32).	swissprot P23641	ND
2252	150.6	ARABINO GALACTAN- PROTEIN.	sptrembl Q9ZT16	ND
2253	150.5	Human secreted protein	geneseqp Y05319	ND

		cb96_10.		
2254	150.5	COLLAGEN ALPHA 1(VIII) CHAIN PRECURSOR (ENDOTHELIAL COLLAGEN).	swissprot P14282	ND
2255	150.5	MATING-TYPE PROTEIN BETA 1.	sptrembl Q9Y7A5	ND
2256	150.5	Peptide encoded by HRGP gene cassette.	geneseqp Y01285	ND
2257	150.5	DJ347H13.5 (NOVEL PROTEIN SIMILAR TO YEAST DNA-DIRECTED RNA POLYMERASE III 25 KD POLYPEPTIDE).	sptrembl Q9Y535	ND
2258	150.4	TRANSCRIPTION TERMINATION FACTOR RHO.	swissprot P52154	ND
2259	150.4	PUTATIVE ZINC METALLOPROTEASE.	sptrembl O68338	ND
2260	150.4	SPERM-SPECIFIC PROTEIN PHI-1.	swissprot Q04621	ND
2261	150.4	C26C6.1 PROTEIN.	sptrembl Q18210	ND
2262	150.2	Human tastin.	geneseqp R94900	ND
2263	150.2	ARABINO GALACTAN-PROTEIN PRECURSOR.	sptrembl Q40786	ND
2264	150.2	A201A-RESISTANCE ATP-BINDING PROTEIN (ARD1).	sptrembl Q53912	ND
2265	150.2	Human secreted protein encoded by gene No. 31.	geneseqp Y27730	ND
2266	150.1	CHROMOSOME IV READING FRAME ORF YDL074C.	sptrembl Q07457	ND
2267	150.1	SERINE-THREONINE PROTEIN KINASE (FRAGMENT).	sptrembl P78975	ND
2268	150.1	EBNA-2 NUCLEAR PROTEIN.	sptrembl Q07701	ND
2269	150.1	1-PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE PHOSPHODIESTERASE 1 (EC 3.1.4.11).	tremblnew CAB52721	ND
2270	150.1	SUPEROXIDE DISMUTASE (EC 1.15.1.1) (FRAGMENT).	sptrembl Q59593	ND
2271	150.1	BILE ACID-COENZYME A LIGASE (EC 6.-.-.-).	swissprot P19409	ND
2272	150.0	SPLICING FACTOR SRP55-1 (FRAGMENT).	sptrembl Q9XSS6	ND
2273	149.9	C06A1.6 PROTEIN.	sptrembl Q9XVX3	ND
2274	149.9	PROLINE-RICH PROTEIN PRECURSOR.	sptrembl Q41122	ND
2275	149.9	NEUROGENIC LOCUS NOTCH HOMOLOG PROTEIN 4 PRECURSOR (TRANSFORMING PROTEIN	swissprot P31695	ND

		INT-3).		
2276	149.9	EXPANSIN 18 (FRAGMENT).	tremblnew CAB65694	ND
2277	149.9	HYPOTHETICAL 31.2 KD PROTEIN RV0891C.	swissnew Q10551	ND
2278	149.9	SUPPRESSOR PROTEIN SRP40.	swissprot P32583	ND
2279	149.8	SPERM PROTEIN.	sptrembl Q24404	ND
2280	149.8	HEPATITIS A VIRUS CELLULAR RECEPTOR 1 LONG FORM (HEPATITIS A VIRUS CELLULAR RECEPTOR 1 SHORT FORM).	sptrembl O46598	ND
2281	149.8	CODED FOR BY C. ELEGANS CDNA YK117B5.5.	sptrembl O01489	ND
2282	149.8	HYPOTHETICAL 41.0 KD PROTEIN.	sptrembl O64895	ND
2283	149.7	SALIVARY GLUE PROTEIN SGS-3 PRECURSOR.	swissprot P13730	ND
2284	149.7	GTG START CODON.	sptrembl Q45316	ND
2285	149.6	SIM1 PROTEIN.	swissprot P40472	ND
2286	149.6	HYPOTHETICAL 15.1 KD PROTEIN (FRAGMENT).	sptrembl P96909	ND
2287	149.6	HYPOTHETICAL 32.8 KD PROTEIN.	tremblnew AAF10253	ND
2288	149.5	LOW-SPECIFICITY D-THREONINE ALDOLASE.	tremblnew BAA86032	ND
2289	149.5	TROPOMYOSIN 1 (ISOFORM 34).	sptrembl Q24425	ND
2290	149.5	C HORDEIN PRECURSOR.	sptrembl Q40055	ND
2291	149.4	LATENCY-ASSOCIATED TRANSCRIPT MRNA.	sptrembl Q69079	ND
2292	149.4	U14 PROTEIN.	sptrembl Q9WT50	ND
2293	149.4	Mycobacterium species protein sequence 8A.	geneseqp Y04786	ND
2294	149.4	HYPOTHETICAL 59.4 KD PROTEIN.	sptrembl P74381	ND
2295	149.3	C03H5.1 PROTEIN.	sptrembl O16660	ND
2296	149.3	Tissue cement protein fragment encoded by clone 24.	geneseqp Y13498	ND
2297	149.3	C. parvum p23 protein fragment.	geneseqp W54052	ND
2298	149.2	Human galectin amino acid sequence.	geneseqp W61955	ND
2299	149.2	MYBS PROTEIN.	sptrembl O15816	ND
2300	149.2	TRANSCRIPTION FACTOR SOX-9.	swissprot P48434	ND
2301	149.1	Mycobacterium species protein sequence 21B'.	geneseqp Y04881	ND
2302	149.1	A serine threonine protein kinase.	geneseqp W67639	ND
2303	149.1	Mycobacterium species protein sequence 50B.	geneseqp Y04998	ND

2304	149.1	T01D3.6B PROTEIN.	sptrembl O02364	ND
2305	149.0	PHEROPHORIN III (FRAGMENT).	sptrembl P93694	ND
2306	149.0	Human secreted protein encoded by gene 89 clone HLHFP03.	geneseqp Y02738	ND
2307	149.0	HYPOTHETICAL 42.0 KD PROTEIN.	sptrembl O28535	ND
2308	149.0	HYPOTHETICAL 20.4 KD PROTEIN (FRAGMENT).	sptrembl Q9Y4N2	ND
2309	148.8	SIMILAR TO PART OF DISEASE RESISTANCE PROTEIN.	tremblnew AAD55639	ND
2310	148.8	PROLINE-RICH.	sptrembl Q94273	ND
2311	148.8	KTI12 PROTEIN.	swissprot P34253	ND
2312	148.8	FERRIC REDUCTASE TRANSMEMBRANE COMPONENT.	sptrembl O94727	ND
2313	148.8	AMINOPEPTIDASE 313 aa, chain A+B	pdb 1AZW	ND
2314	148.7	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT (EC 2.7.7.6).	swissprot P16356	ND
2315	148.7	KIAA0561 PROTEIN (FRAGMENT).	tremblnew AAD22670	ND
2316	148.7	DNA-DIRECTED RNA POLYMERASE II LARGE (205KD) SUBUNIT (EC 2.7.7.6) (FRAGMENT).	sptrembl Q99367	ND
2317	148.7	PUTATIVE EXTENSIN.	sptrembl Q9ZNU3	ND
2318	148.6	SWI/SNF RELATED, MATRIX ASSOCIATED, ACTIN DEPENDENT REGULATOR OF CHROMATIN, SUBFAMILY A, MEMBER 4 (BRG1) (FRAGMENT).	sptrembl O35845	ND
2319	148.6	HIGH MOLECULAR MASS NUCLEAR ANTIGEN (FRAGMENT).	sptrembl O57580	ND
2320	148.6	PUTATIVE SEC24-LIKE COPII PROTEIN.	tremblnew AAF20236	ND
2321	148.6	SIMILAR TO EPOXIDE HYDROLASES.	tremblnew BAA84627	ND
2322	148.5	HYPOTHETICAL 23.8 KD PROTEIN (FRAGMENT)	sptrembl Q9XSR6	ND
2323	148.5	GLUCOAMYLASE.	tremblnew AAC49609	ND
2324	148.5	HYPOTHETICAL 27.2 KD PROTEIN.	sptrembl O50997	ND
2325	148.5	FLBD.	tremblnew AAF01466	ND
2326	148.5	CUTICLE COLLAGEN 34.	swissprot P34687	ND
2327	148.5	HYPOTHETICAL 60.7 KD PROTEIN C26A3.15C IN	swissprot Q10168	ND

		CHROMOSOME 1.		
2328	148.4	SPERM PROTAMINE P1.	swissprot P42131	ND
2329	148.4	T. gondii immunogenic protein.	geneseqp Y29061	ND
2330	148.4	Human CTR.	geneseqp R37424	ND
2331	148.4	CYCLIC AMP PHOSPHODIESTERASE.	tremblnew AAC00042	ND
2332	148.4	Human secreted protein encoded by gene No. 47.	geneseqp Y27757	ND
2333	148.3	HumB3VI humanised variable light chain.	geneseqp R95212	ND
2335	148.2	C04G2.8 PROTEIN.	sptrembl Q17626	ND
2336	148.2	KIAA0755 PROTEIN.	sptrembl O94855	ND
2337	148.2	MATING-TYPE PROTEIN A-ALPHA Y3.	swissprot P37934	ND
2338	148.1	A human tumour necrosis factor-R2-like proteins (TR2P)-2.	geneseqp Y28450	ND
2339	148.1	T21B6.3 PROTEIN.	sptrembl Q22631	ND
2340	148.1	HYPOTHETICAL 62.8 KD PROTEIN.	sptrembl O23187	ND
2341	148.1	CATHEPSIN L PRECURSOR (EC 3.4.22.15) (MAJOR EXCRETED PROTEIN) (MEP) (CYCLIC PROTEIN-2) (CP-2).	swissprot P07154	ND
2342	148.1	FAMILY 19 CHITINASE (PRYA1 ORF) PRECURSOR.	sptrembl Q9WX19	ND
2343	148.0	DNA HELICASE/PRIMASE COMPLEX ASSOCIATED PROTEIN.	swissprot P10192	ND
2344	148.0	NO COUNTERPART IN HSV-1 OR VZV.	sptrembl O39244	ND
2345	148.0	DIHYDRODIOL DEHYDROGENASE.	sptrembl Q51748	ND
2346	148.0	EXTENSIN CLASS II PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) (HRGP) (TOML-4).	sptrembl Q09084	ND
2347	148.0	Human secreted protein encoded by gene 64 clone HMWEX24.	geneseqp W74793	ND
2348	148.0	T13F2.6 PROTEIN.	sptrembl Q94049	ND
2349	148.0	ENVELOPE GLYCOPROTEIN (FRAGMENT).	sptrembl O39337	ND
2350	147.9	COAT PROTEIN.	sptrembl Q65970	ND
2351	147.8	SOX100B PROTEIN	tremblnew CAB63903	ND
2352	147.8	NOLC PROTEIN.	swissprot P26508	ND
2353	147.8	HYPOTHETICAL 47.8 KD PROTEIN.	sptrembl O60158	ND
2354	147.7	MEROZOITE SURFACE PROTEIN-1 (FRAGMENT).	sptrembl O00879	ND
2355	147.7	BASEMENT MEMBRANE	swissprot Q06561	ND

		PROTEOGLYCAN PRECURSOR (PERLECAN HOMOLOG).		
2356	147.7	PHYTOCHROME (FRAGMENT).	sptrembl P93057	ND
2357	147.7	MELANOCYTE PROTEIN 17 PRECURSOR (FRAGMENT).	sptrembl O97884	ND
2358	147.7	ANTHER-SPECIFIC PROTEIN SF18 PRECURSOR (FRAGMENT).	swissprot P22357	ND
2359	147.6	F17C11.1 PROTEIN.	sptrembl Q19521	ND
2360	147.6	C4SR PROTEIN.	sptrembl Q91708	ND
2361	147.5	HYPOTHETICAL 112.1 KD PROTEIN C06G4.1 IN CHROMOSOME III.	swissprot P34307	ND
2362	147.5	RECA PROTEIN (FRAGMENT).	tremblnew AAF25430	ND
2363	147.5	CODED FOR BY C. ELEGANS CDNA YK37G1.5.	sptrembl Q20649	ND
2364	147.5	MUCIN (FRAGMENT).	sptrembl Q14879	ND
2365	147.3	REPA1 PROTEIN.	tremblnew CAB56190	ND
2366	147.3	F32D1.3 PROTEIN.	sptrembl O16296	ND
2367	147.3	ZINC-PROTEASE TRANSPORTER.	sptrembl O67995	ND
2368	147.3	Chlamydia pneumoniae protein not found in C. trachomatis.	geneseqp Y35721	ND
2369	147.2	HUNCHBACK PROTEIN (HB).	sptrembl O62537	ND
2370	147.2	EXTENSIN.	sptrembl Q9ZWT0	ND
2371	147.2	CODED FOR BY C. ELEGANS CDNA YK150F2.5.	sptrembl O01681	ND
2372	147.2	SIMILARITY TO SCAMP37.	sptrembl Q9ZTX0	ND
2373	147.2	A-lineage conotoxin SmIII prepropeptide.	geneseqp W12767	ND
2374	147.2	ROX1 REPRESSOR (HYPOXIC FUNCTION REPRESSOR) (HEME- DEPENDENT REPRESSION FACTOR)	swissprot P25042	ND
2375	147.2	ALPHA-AMYLASE INHIBITOR BMAI-1 PRECURSOR (ALLERGEN HOR V 1) (ALPHA- AMYLASE FLOUR INHIBITOR) (FRAGMENT).	swissprot P16968	ND
2376	147.1	EXTENSIN CLASS I PROTEIN PRECURSOR (EXTENSIN-LIKE PROTEIN).	sptrembl Q41707	ND
2377	147.1	PARVALBUMIN ALPHA (PA 4.97)	swissprot P18087	ND
2378	147.1	P20-gammaZ zein protein sequence.	geneseqp W22526	ND
2379	147.1	HYPOTHETICAL 30.2 KD	sptrembl P71863	ND

		PROTEIN.		
2380	147.1	F36F2.2 PROTEIN.	sptrembl O62233	ND
2381	147.0	PROLINE RICH PROTEIN PRECURSOR.	sptrembl Q43558	ND
2382	147.0	ORF 50.	sptrembl Q66652	ND
2383	147.0	HYPOTHETICAL 14.6 KD PROTEIN.	sptrembl O67892	ND
2384	147.0	POLYPROTEIN (FRAGMENT).	sptrembl Q9YK32	ND
2385	147.0	RNA POLYMERASE (FRAGMENT).	sptrembl O37355	ND
2386	146.9	MYOSIN REGULATORY LIGHT CHAIN INTERACTING PROTEIN MIR.	tremblnew AAF18974	ND
2387	146.9	Human h1CED-6 proline/serine rich region.	geneseqp Y27251	ND
2388	146.9	MEGF6 (FRAGMENT).	sptrembl O75095	ND
2389	146.9	ESRS4.	sptrembl Q9YIB1	ND
2390	146.8	HYPOTHETICAL PROTEIN E-115.	swissprot P03290	ND
2391	146.8	ETS-RELATED PROTEIN ERM (ETS TRANSLOCATION VARIANT 5).	swissprot P41161	ND
2392	146.7	PROBABLE IMIDAZOLEGLYCEROL- PHOSPHATE DEHYDRATASE (EC 4.2.1.19) (IGPD).	swissprot Q58109	ND
2393	146.7	Streptococcus pneumoniae PspA central region.	geneseqp W14579	ND
2394	146.7	PUTATIVE ZINC FINGER PROTEIN.	sptrembl O74256	ND
2395	146.7	PROLINE-RICH PROTEOGLYCAN PRPG2.	sptrembl Q07611	ND
2396	146.7	HORMONE/GROWTH FACTOR 290 aa, chain B+E	pdb 1QCT	ND
2397	146.6	ORF IIL.	sptrembl Q65223	ND
2398	146.6	LL5 MRNA.	sptrembl Q63312	ND
2399	146.6	HYPOTHETICAL PROTEIN (FRAGMENT).	tremblnew BAA87194	ND
2400	146.5	F55C9.9 PROTEIN.	sptrembl Q9XUZ2	ND
2401	146.5	RAS-LIKE GTP-BINDING PROTEIN RYL2.	swissprot P41925	ND
2402	146.4	HYPOTHETICAL 40.1 KD PROTEIN.	sptrembl O06798	ND
2403	146.4	E1B PROTEIN. LARGE T- ANTIGEN.	swissprot P04491	ND
2404	146.4	PUTATIVE ABC TRANSPORTER.	tremblnew CAB58409	ND
2405	146.4	DUAL-SPECIFICITY TYROSINE-(Y)- PHOSPHORYLATION REGULATED KINASE (EC	swissprot Q61214	ND

		2.7.1.-) (PROTEIN KINASE MINIBRAIN HOMOLOG) (MP86).		
2406	146.4	CYTOCHROME C OXIDASE POLYPEPTIDE II (EC 1.9.3.1).	sptrembl O47580	ND
2407	146.4	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) (HRGP) (PTel 15).	sptrembl Q06446	ND
2408	146.3	F38C2.6 PROTEIN.	sptrembl O45492	ND
2409	146.3	GLYCOSYLTRANSFERASE-LIKE PROTEIN.	tremblnew CAB42905	ND
2410	146.3	TONB PROTEIN.	tremblnew CAB64965	ND
2411	146.3	Drosophila trithorax zinc finger domain 1266-1483.	geneseqp R38471	ND
2412	146.3	VESICLE-ASSOCIATED PROTEIN (VAP-1) (FRAGMENT).	swissprot Q06155	ND
2413	146.3	Human mDia Rho targeting protein.	geneseqp W76734	ND
2414	146.2	ATP SYNTHASE A CHAIN (EC 3.6.1.34).	sptrembl Q95782	ND
2415	146.2	F35G12.10 PROTEIN.	sptrembl Q20053	ND
2416	146.2	CTG3A (FRAGMENT).	sptrembl Q9Y417	ND
2417	146.2	ROD SHAPE-DETERMINING PROTEIN MREC (MREC).	sptrembl Q9ZCH5	ND
2418	146.2	KRAB-ZINC FINGER PROTEIN KZF-1.	sptrembl P70590	ND
2419	146.2	SEIZURE-RELATED GENE PRODUCT 6 TYPE 3 PRECURSOR.	sptrembl Q62224	ND
2420	146.2	HYPOTHETICAL 172.2 KD PROTEIN.	tremblnew CAB41133	ND
2421	146.1	EF-G.	tremblnew BAA88140	ND
2422	146.1	Actinomadura flexuosa xylanase.	geneseqp R94881	ND
2423	146.1	AMYLOID BETA (A4) PRECURSOR PROTEIN-BINDING, FAMILY B, MEMBER 1 (FE65) (FRAGMENT).	sptrembl O08642	ND
2424	146.0	HUNCHBACK PROTEIN (HB) (FRAGMENTS).	sptrembl O46256	ND
2425	146.0	HYPOTHETICAL 11.1 KD PROTEIN (ORF 1).	swissprot P11907	ND
2426	146.0	WW DOMAIN BINDING PROTEIN 5 (FRAGMENT).	sptrembl O08549	ND
2427	146.0	NADH DEHYDROGENASE SUBUNIT 4 (FRAGMENT).	sptrembl Q96091	ND
2428	146.0	DBL ALPHA PROTEIN (FRAGMENT).	sptrembl Q9XZA9	ND

2429	146.0	PUTATIVE KUP ZINC-FINGER {N-TERMINAL, CLONE EST07388}.	tremblnew G407623	ND
2430	145.9	Canine hookworm Neutrophil Inhibitory Factor isoform 1P.	geneseqp R52986	ND
2431	145.9	PUTATIVE EXTENSIN.	sptrembl Q9ZNU3	ND
2432	145.9	NIF-SPECIFIC REGULATORY PROTEIN.	swissprot P09133	ND
2433	145.9	Amino acid sequence of a virulence factor encoded by ORF25510.	geneseqp Y29194	ND
2434	145.8	MITOCHONDRIAL CAPSULE SELENOPROTEIN.	sptrembl O70613	ND
2435	145.8	MUCIN-LIKE PROTEIN.	sptrembl O61035	ND
2436	145.8	TRANSCRIPTION FACTOR MTF-1.	sptrembl Q9YGM3	ND
2437	145.8	W02B12.2 PROTEIN.	sptrembl Q23120	ND
2438	145.8	ACIDIC PROLINE-RICH PROTEIN PRP33 PRECURSOR.	swissprot P04474	ND
2439	145.7	KINESIN-LIKE DNA BINDING PROTEIN.	sptrembl O94814	ND
2440	145.7	TRBH PROTEIN.	swissprot P19381	ND
2441	145.7	Mycobacterium tuberculosis antigen TbH-29.	geneseqp W64359	ND
2442	145.6	HYPOTHETICAL 13.0 KD PROTEIN IN GIT1-PAU3 INTERGENIC REGION.	swissprot P25609	ND
2443	145.6	METALLOTHIONEIN-III (MT-III) (GROWTH INHIBITORY FACTOR) (GIF).	swissprot P37361	ND
2444	145.6	HISTONE H3.	swissprot P07041	ND
2445	145.6	Amino acid sequence of a virulence factor encoded by ORF6325.	geneseqp Y29127	ND
2446	145.5	NADH DEHYDROGENASE SUBUNIT 4 (FRAGMENT).	tremblnew AAC98214	ND
2447	145.5	ORF C1.	sptrembl Q67591	ND
2448	145.5	HYPOTHETICAL 13.2 KD PROTEIN IN RPS4A-BAT2 INTERGENIC REGION.	swissprot P47174	ND
2449	145.5	152AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YG78	ND
2450	145.5	LATE EXPRESSION FACTOR 6.	sptrembl Q9YMT6	ND
2451	145.5	SPLICING FACTOR SRP54.	sptrembl O61646	ND
2452	145.5	Human neurofilament-M mutant protein fragment 89.	geneseqp Y20807	ND
2453	145.4	F24J5.8 PROTEIN.	tremblnew AAD49974	ND
2454	145.3	DNA POLYMERASE (FRAGMENT).	sptrembl Q9YRJ7	ND
2455	145.3	SERRATEB.	sptrembl	ND

			Q9YHU2	
2456	145.3	SPROUTY 2.	tremblnew AAD56005	ND
2457	145.2	Fragment of human secreted protein encoded by gene 54.	geneseqp Y36675	ND
2458	145.2	133AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YDU6	ND
2459	145.2	KIAA1103 PROTEIN (FRAGMENT).	tremblnew BAA83055	ND
2460	145.2	K07E8.11 PROTEIN.	sptrembl O16693	ND
2461	145.2	HEMOGLOBIN ALPHA-B CHAIN.	swissprot P51465	ND
2462	145.1	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q40692	ND
2463	145.1	NAD(P)H-DEPENDENT XYLOSE REDUCTASE (EC 1.1.1.-) (XR).	swissprot P78736	ND
2464	145.1	ASPARTATE TRANSAMINASE.	sptrembl P72859	ND
2465	145.1	GLYCOPROTEIN G-2 (FRAGMENT).	tremblnew CAB65677	ND
2466	145.1	Glucose repressor CRE1 of T. reesei.	geneseqp W13846	ND
2467	145.0	HOMEBOX PROTEIN ALX3 (FRAGMENT).	sptrembl O95075	ND
2468	145.0	HIV-1 ISOLATE 93BR020 FROM BRAZIL COMPLETE GENOME.	sptrembl O70890	ND
2469	145.0	WASP INTERACTING PROTEIN.	sptrembl O43516	ND
2470	145.0	BASIC DOMAIN LEUCINE ZIPPER TRANSCRIPTION FACTOR.	sptrembl Q9W6B1	ND
2471	144.9	VASOPRESSIN REGULATED WATER CHANNEL.	sptrembl Q9YI69	ND
2472	144.9	PRP8 PROTEIN HOMOLOGUE.	sptrembl O15881	ND
2473	144.9	GLUE PROTEIN.	sptrembl Q27423	ND
2474	144.9	MITOCHONDIA ASSOCIATED CYSTEINE- RICH PROTEIN SMCP.	sptrembl Q64298	ND
2475	144.9	TREACLE PROTEIN (TREACHER COLLINS SYNDROME PROTEIN).	swissprot Q13428	ND
2476	144.8	MIE2.	sptrembl Q98683	ND
2477	144.8	LATE 100 KD PROTEIN.	swissprot P11824	ND
2478	144.7	HYPOTHETICAL 6.3 KD PROTEIN T23F2.5 IN CHROMOSOME X.	swissprot Q22702	ND
2479	144.7	HEPATITIS A VIRUS RECEPTOR.	sptrembl O18984	ND
2480	144.7	Peptide encoded by HRGP gene cassette incorporating a GAGP construct.	geneseqp Y01282	ND
2481	144.7	HYPOTHETICAL PROTEIN	sptrembl P72068	ND

		(FRAGMENT).		
2482	144.7	NCK-ASSOCIATED PROTEIN NAP5 (FRAGMENT).	sptrembl O14513	ND
2483	144.7	AMPHIOXUS OTX TRANSCRIPTION FACTOR.	sptrembl O45024	ND
2484	144.7	A. oryzae DEBY10.3 locus protein sequence.	geneseqp Y39872	ND
2485	144.6	Cyn dI derived from clone 22 (C22).	geneseqp R37919	ND
2486	144.6	HYPOTHETICAL 14.8 KD PROTEIN.	sptrembl O43034	ND
2487	144.6	TRISTETRAPROLINE (TTP) (TIS11A) (TIS11) (ZFP-36) (GROWTH FACTOR- INDUCIBLE NUCLEAR PROTEIN NUP475) (TPA INDUCED SEQUENCE 11).	swissprot P22893	ND
2488	144.6	MACROSIALIN PRECURSOR (CD68).	swissprot P31996	ND
2489	144.5	SERINE PROTEASE INHIBITOR-3.	sptrembl O77418	ND
2490	144.5	SPERM PROTAMINE P1.	swissprot P35311	ND
2491	144.5	HYPOTHETICAL 63.2 KD PROTEIN.	sptrembl O59725	ND
2492	144.5	ANGIOGENIN (EC 3.1.27.-).	swissprot P31347	ND
2493	144.5	L549.6.	sptrembl O60967	ND
2494	144.5	Fibrinogenolytic protein #4 from snake venom.	geneseqp R20557	ND
2495	144.5	Sequence of spermatozoal antigen peptide.	geneseqp P40632	ND
2496	144.5	CYSTEINE-RICH PROTEIN (FRAGMENT).	sptrembl Q16861	ND
2497	144.5	Streptococcus pneumoniae PspA central region.	geneseqp W14576	ND
2498	144.5	CARBAMOYL-PHOSPHATE SYNTHETASE SUBUNIT A.	sptrembl O30576	ND
2499	144.4	Acylcoenzyme A:cholesterol acyltransferase partial sequence.	geneseqp W43413	ND
2500	144.4	CAMP-SPECIFIC PHOSPHODIESTERASE.	sptrembl O35470	ND
2501	144.4	HYPOTHETICAL 21.7 KD PROTEIN.	sptrembl O67497	ND
2502	144.4	RNA BINDING PROTEIN (FRAGMENT).	tremblnew BAA83714	ND
2503	144.4	HYPOTHETICAL 26.2 KD PROTEIN.	sptrembl O30169	ND
2504	144.4	SPDA PROTEIN.	sptrembl Q07193	ND
2505	144.3	HIGH CYSTEINE KERATIN- ASSOCIATED PROTEIN 12.1.	sptrembl Q9Z287	ND
2506	144.3	KIAA0775 PROTEIN.	sptrembl O94873	ND
2507	144.3	MITOCHONDRIAL CAPSULE SELENOPROTEIN.	sptrembl O70613	ND
2508	144.3	FORKHEAD-RELATED	swissnew Q12948	ND

		TRANSCRIPTION FACTOR 3 (FREAC-3).		
2509	144.3	HYPOTHETICAL 43.6 KD PROTEIN.	sptrembl Q03935	ND
2510	144.3	PUTATIVE INTEGRASE.	tremblnew CAB65361	ND
2511	144.2	NEUTROPHIL PROTEIN (FRAGMENT).	sptrembl Q99331	ND
2512	144.2	CHORIOGENIN H PRECURSOR	sptrembl P79817	ND
2513	144.2	SEGMENTATION GENE.	tremblnew AAD19794	ND
2514	144.2	DNA BINDING PROTEIN (FRAGMENT).	sptrembl Q40726	ND
2515	144.2	KV3.1 POTASSIUM CHANNEL.	tremblnew AAD52813	ND
2516	144.1	HYPOTHETICAL 53.5 KD PROTEIN IN GCD14-POS18 INTERGENIC REGION.	swissprot P47018	ND
2517	144.1	CYTOCHROME P450 17 (EC 1.14.99.9) (CYPXVII) (P450-C17) (STEROID 17-ALPHA-HYDROXYLASE/17,20 LYASE).	swissprot O57525	ND
2518	144.1	TRANSCRIPTION FACTOR (FRAGMENT).	tremblnew AAD27591	ND
2519	144.1	MUCIN MUC5B (FRAGMENT).	sptrembl Q99552	ND
2520	144.1	Hepatocyte nuclear factor 4 alpha polypeptide (exon 8 product).	geneseqp W71571	ND
2521	144.1	LATENCY ASSOCIATED TRANSCRIPT.	sptrembl Q9YPF7	ND
2522	144.0	PUTATIVE HYDROLASE.	tremblnew CAB59667	ND
2523	144.0	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN (FRAGMENT).	sptrembl Q40552	ND
2524	144.0	SMALL PROLINE-RICH PROTEIN WITH PAIRED REPEAT.	sptrembl Q28593	ND
2525	143.9	W02G9.5 PROTEIN.	sptrembl Q61903	ND
2526	143.9	Mammalian ion channel proline rich motif containing peptide #19.	geneseqp Y41625	ND
2527	143.9	F24J5.8 PROTEIN.	tremblnew AAD49974	ND
2528	143.9	CHROMOSOME XII READING FRAME ORF YLR020C.	sptrembl Q07950	ND
2529	143.9	BETA(1,4)-GLUCAN GLUCANOHYDROLASE PRECURSOR	sptrembl Q31030	ND
2530	143.9	INSA.	tremblnew AAD45539	ND
2531	143.9	NICE-1 PROTEIN.	tremblnew	ND

			CAB65093	
2532	143.8	Human lysosomal membrane sialoglycoprotein lamp-1	geneseqp R69554	ND
2533	143.8	T. gondii immunogenic protein.	geneseqp Y29081	ND
2534	143.8	50KD PROLINE RICH PROTEIN.	sptrembl Q9ZBP2	ND
2535	143.8	MITOGEN-ACTIVATED PROTEIN KINASE HOMOLOG NTF6 (EC 2.7.1.-) (P43).	swissprot Q40531	ND
2536	143.7	Intestinal mucin deduced from clone SMUC 40.	geneseqp R07670	ND
2537	143.7	PUTATIVE DEUBIQUITINATING ENZYME UBPY.	sptrembl Q9WVP5	ND
2538	143.7	CALDENDRIN.	sptrembl O88751	ND
2539	143.7	MULTIDRUG-EFFLUX TRANSPORTER, PUTATIVE.	tremblnew AAF12676	ND
2540	143.7	F13F21.7 PROTEIN.	sptrembl Q9XIB6	ND
2541	143.7	METALLOPROTEINASE PRECURSOR.	tremblnew AAF01041	ND
2542	143.7	HYPOTHETICAL 21.5 KD PROTEIN (FRAGMENT).	sptrembl Q9Y4U5	ND
2543	143.7	M150R.	tremblnew AAF15037	ND
2544	143.6	DY3.5 PROTEIN.	sptrembl O45322	ND
2545	143.6	MACROPHOMATE SYNTHASE.	tremblnew BAA89352	ND
2546	143.6	Human glial fibrillary acidic protein GFAP mutant fragment 13.	geneseqp Y21004	ND
2547	143.6	PLENTY-OF-PROLINES-101.	sptrembl O70495	ND
2548	143.6	KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIIA3.	swissprot P02441	ND
2549	143.6	Rodent DCMP1 C-lectin family gene protein sequence.	geneseqp W88128	ND
2550	143.5	ATPASE SUBUNIT 6.	tremblnew AAF17127	ND
2551	143.5	Peptide derived from the beta subunit of hCG.	geneseqp W42217	ND
2552	143.5	NEUROFILAMENT TRIPLET L PROTEIN (NF-L).	swissprot Q02916	ND
2553	143.5	L2602.6.	sptrembl O60961	ND
2554	143.5	Y69E1A.2 PROTEIN.	sptrembl Q9XW38	ND
2555	143.5	VERY HYPOTHETICAL PROTEIN.	tremblnew CAB52568	ND
2556	143.4	Amino acid sequence of a mouse sperm protein designated sp56.	geneseqp W39924	ND
2557	143.4	HOMOLOG OF HUMAN MLT2 UNIDENTIFIED GENE (MAF4) (FRAGMENT).	sptrembl O35233	ND
2558	143.4	HYPOTHETICAL 90.6 KD PROTEIN C09D8.2 IN	sptrembl Q09434	ND

		CHROMOSOME II.		
2559	143.3	HYPOTHETICAL 57.2 KD PROTEIN.	sptrembl O68872	ND
2560	143.3	W CHROMOSOME-SPECIFIC XHOI FAMILY REPEAT (FRAGMENT).	sptrembl Q90983	ND
2561	143.3	PROTO-ONCOGENE FRAT1 (FREQUENTLY REARRANGED IN ADVANCED T-CELL LYMPHOMAS).	swissnew Q92837	ND
2562	143.3	NHP2/RS6 FAMILY PROTEIN YEL026W.	swissprot P39990	ND
2563	143.2	Peptide encoded by HRGP gene cassette incorporating a SP construct.	geneseqp Y01284	ND
2564	143.2	ATP SYNTHASE ALPHA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P37211	ND
2565	143.2	REPETITIVE SEQUENCE ELEMENT MGP-R5 (FRAGMENT).	sptrembl Q49395	ND
2566	143.2	PUTATIVE TRANSCRIPTION FACTOR MYB94.	tremblnew CAB61986	ND
2567	143.2	HYPOTHETICAL 59.4 KD PROTEIN.	sptrembl Q89392	ND
2568	143.2	VW02B12L.3 PROTEIN.	sptrembl Q9XXA2	ND
2569	143.1	EG:BACR42I17.8 PROTEIN.	tremblnew CAB65885	ND
2570	143.1	C30E1.7 PROTEIN.	sptrembl O17330	ND
2571	143.1	F26D10.11 PROTEIN.	sptrembl Q9XVU1	ND
2572	143.1	PROLINE-RICH PROTEIN MP-2 PRECURSOR.	swissprot P05142	ND
2573	143.0	NEUROGENIC DIFFERENTIATION FACTOR 1 (BETA-CELL E-BOX TRANS-ACTIVATOR 2) (BETA2).	swissprot Q60430	ND
2574	143.0	TOPOISOMERASE I.	sptrembl O24307	ND
2575	143.0	COSMID F25B4.	sptrembl Q22965	ND
2576	143.0	ENTERIC BETA-DEFENSIN PRECURSOR.	swissprot O02775	ND
2577	143.0	ATROPHIN-RELATED PROTEIN ARP.	sptrembl Q9Y2W4	ND
2578	143.0	Delta-endotoxin MIVDL.	geneseqp R88002	ND
2579	143.0	A-AGGLUTININ ATTACHMENT SUBUNIT PRECURSOR.	swissprot P32323	ND
2580	143.0	AT2G21830 PROTEIN.	tremblnew AAD20402	ND
2581	143.0	Chlamydia pneumoniae lipoprotein sequence.	geneseqp Y35857	ND
2582	142.9	REGULATORY PROTEIN	tremblnew	ND

		P4G.	CAB55346	
2583	142.9	HYPOTHETICAL NUCLEAR PROTEIN (FRAGMENT).	tremblnew BAA87215	ND
2584	142.9	ESTROGEN RECEPTOR BETA (FRAGMENT).	sptrembl Q95171	ND
2585	142.9	HYPOTHETICAL 35.0 KD PROTEIN IN ARP5-OMP2 INTERGENIC REGION.	swissprot P53947	ND
2586	142.8	Human glial fibrillary acidic protein GFAP wild type fragment 12.	geneseqp Y20986	ND
2587	142.8	HYPOTHETICAL 13.4 KD PROTEIN.	sptrembl Q84187	ND
2588	142.8	CODING REGION FOR PUTATIVE POLYPEPTIDE 2.	sptrembl Q64922	ND
2589	142.8	Distal-less homeobox gene 3delta (DLX3delta) protein.	geneseqp Y39227	ND
2590	142.8	SERINE/THREONINE KINASE PAK HOMOLOG DPAK.	sptrembl Q24190	ND
2591	142.8	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
2592	142.7	Cotton fibrous tissue specific protein KC03.	geneseqp W15761	ND
2593	142.7	SOLUBLE DEATH RECEPTOR 3 BETA.	sptrembl O14866	ND
2594	142.7	DNA, TRANSPOSABLE ELEMENT IS31831.	sptrembl Q45144	ND
2595	142.7	KIAA1239 PROTEIN (FRAGMENT).	tremblnew BAA86553	ND
2596	142.7	SIMILAR TO TYROSINE AMINOTRANSFERASE.	sptrembl Q9ZC65	ND
2597	142.7	DEFENSIN GENE PRECURSOR.	sptrembl O65740	ND
2598	142.7	Human VRF-2 truncated fragment 4.	geneseqp W86217	ND
2599	142.7	NESTIN.	swissprot P48681	ND
2600	142.7	RAG1 PROTEIN (FRAGMENT).	tremblnew AAD54537	ND
2601	142.7	VASOPRESSIN V2 RECEPTOR.	sptrembl O77808	ND
2602	142.7	DISULFIDE OXIDOREDUCTASE 188 aa, chain A+B	pdb 1FVJ	ND
2603	142.6	HISTIDINE-RICH.	sptrembl Q20689	ND
2604	142.6	HYPOTHETICAL 31.8 KD PROTFIN	tremblnew AAD49200	ND
2605	142.6	DNA-DIRECTED DNA POLYMERASE (EC 2.7.7.7) (DNA NUCLEOTIDYLTRANSFERASE (DNA-DIRECTED)) (FRAGMENT).	sptrembl Q95037	ND
2606	142.6	F36A2.7 PROTEIN.	sptrembl P90860	ND
2607	142.5	Mouse Desert hedgehog protein Dhh.	geneseqp Y05511	ND

2608	142.5	HOMEBOX PROTEIN HOX-B4 (HOXB-4).	swissnew O13074	ND
2609	142.5	Mycobacterium species protein sequence 15F.	geneseqp Y04837	ND
2610	142.5	SINGLE-STRAND SELECTIVE MONOFUNCTIONAL URACIL DNA GLYCOSYLASE.	sptrembl O95862	ND
2611	142.4	102AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YB00	ND
2612	142.4	104AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YB81	ND
2613	142.4	152AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YEE0	ND
2614	142.3	LIM HOMEBOX PROTEIN.	sptrembl P92031	ND
2615	142.3	Mycobacterium species protein sequence 50B.	geneseqp Y04998	ND
2616	142.3	NODULIN 23 PRECURSOR (N-23).	swissprot P04144	ND
2617	142.3	A588R PROTEIN.	sptrembl O41070	ND
2618	142.3	ZK1067.2 PROTEIN.	sptrembl Q23388	ND
2619	142.3	PROLINE-AND GLUTAMINE-RICH PROTEIN.	tremblnew AAF07181	ND
2620	142.2	CHLOROPLAST IMPORT-ASSOCIATED CHANNEL HOMOLOG.	tremblnew CAB51191	ND
2621	142.2	WISKOTT-ALDRICH SYNDROME PROTEIN HOMOLOG 1.	sptrembl O36027	ND
2622	142.2	PHOSPHOSERINE PHOSPHATASE (EC 3.1.3.3) (PSP) (O-PHOSPHOSERINE PHOSPHOHYDROLASE) (PSP).	swissnew P42941	ND
2623	142.2	METHYL-CPG BINDING PROTEIN 2 (FRAGMENT).	tremblnew AAF21637	ND
2624	142.2	FROM BASES 1663181 TO 1676139 (SECTION 145 OF 400) OF THE COMPLETE GENOME (SECTION 145 OF 400).	sptrembl P76176	ND
2625	142.2	OUTER CAPSID PROTEIN VP2 (FRAGMENT).	sptrembl Q9WHT4	ND
2626	142.1	252AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YBR3	ND
2627	142.1	FIBRINOGEN-BINDING PROTEIN PRECURSOR.	sptrembl O70022	ND
2628	142.1	HYPOTHETICAL 49.9 KD PROTEIN.	tremblnew CAB41154	ND
2629	142.1	NULLO (FRAGMENT).	sptrembl O02574	ND
2630	142.0	PUTATIVE OXIDOREDUCTASE.	sptrembl Q9Z4W3	ND
2631	142.0	AMELOGENIN.	tremblnew BAA84220	ND

2632	142.0	PHOSPHATIDYLINOSITOL 3-KINASE 2 (EC 2.7.1.137) (PI3-KINASE) (PTDINS-3-KINASE) (PI3K).	swissprot P54674	ND
2633	142.0	Sequence encoded by plasmid pUC18RRstop in E.coli.	geneseqp P94507	ND
2634	142.0	THIOREDOXIN M-TYPE, CHLOROPLAST PRECURSOR (TRX-M).	swissprot P07591	ND
2635	142.0	PUTATIVE SENSORY HISTIDINE KINASE.	sptrembl O86808	ND
2636	141.9	METHYL-CPG BINDING PROTEIN.	sptrembl O15248	ND
2637	141.9	SPERM PROTAMINE P1.	swissprot O18748	ND
2638	141.9	4Heptad-F zipper protein.	geneseqp W00956	ND
2639	141.9	113AA LONG HYPOTHETICAL PROTEIN.	sptrembl O58987	ND
2640	141.8	SEQ ID NO 474 from WO9922243.	geneseqp Y19756	ND
2641	141.8	HYPOTHETICAL 10.3 KD PROTEIN.	sptrembl O32903	ND
2642	141.8	HYPOTHETICAL 19.8 KD PROTEIN.	sptrembl Q52968	ND
2643	141.8	PSEUDOURIDYLATE SYNTHASE 1 (EC 4.2.1.70) (PSEUDOURIDINE SYNTHASE 1).	swissprot Q12211	ND
2644	141.7	(SCSV1).	sptrembl Q87008	ND
2645	141.7	Human receptor interacting protein.	geneseqp W04628	ND
2646	141.7	SPROUTY 2.	sptrembl O43597	ND
2647	141.6	VARIABLE SURFACE ANTIGEN V-1, HEMADSORPTION NEGATIVE (VSAHA-) (FRAGMENT).	sptrembl Q50323	ND
2648	141.6	BCL-X (FRAGMENT).	tremblnew AAC72232	ND
2649	141.6	Fragment of human secreted protein encoded by gene 10.	geneseqp Y36432	ND
2650	141.6	SRC protein tyrosine kinase derived peptide #4.	geneseqp R93347	ND
2651	141.6	COAGULATION FACTOR XII PRECURSOR (EC 3.4.21.38) (HAGEMAN FACTOR) (HAF).	swissprot P00748	ND
2652	141.5	P53.	tremblnew AAF03996	ND
2653	141.5	SIMILAR TO TREHALASE PRECURSOR. NCBI GI: 1086612.	sptrembl Q22195	ND
2654	141.5	151AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YEG3	ND
2655	141.4	HYPOTHETICAL 49.7 KD PROTEIN.	sptrembl P72863	ND

2656	141.4	CYCLIN-E BINDING PROTEIN 1.	tremblnew BAA88519	ND
2657	141.4	BLACKJACK.	sptrembl Q26471	ND
2658	141.4	HPV16 E6/E7 proteins.	geneseq R63865	ND
2659	141.4	HYPOTHETICAL 69.8 KD PROTEIN.	tremblnew CAB52444	ND
2660	141.3	CHORDIN.	sptrembl Q9Z0E2	ND
2661	141.3	F53B6.2 PROTEIN.	sptrembl P90884	ND
2662	141.3	ENVELOPE GLYCOPROTEIN (FRAGMENT).	sptrembl O91928	ND
2663	141.3	TRANSCRIPTION FACTOR BTD (BUTTONHEAD).	swissprot Q24266	ND
2664	141.3	NATURAL KILLER-ASSOCIATED TRANSCRIPT 2A PROTEIN.	sptrembl Q92803	ND
2665	141.3	HOMEBOX PROTEIN.	sptrembl Q9YGT0	ND
2666	141.3	Sequence A encoded by a portion of SA307.	geneseq P60623	ND
2667	141.3	SIMILAR TO C. ELEGANS PROTEIN D1044.3.	sptrembl Q20462	ND
2668	141.2	MOVEMENT PROTEIN.	sptrembl Q9YJR6	ND
2669	141.2	HEPATITIS A VIRUS CELLULAR RECEPTOR 1 LONG FORM (HEPATITIS A VIRUS CELLULAR RECEPTOR 1 SHORT FORM).	sptrembl O46598	ND
2670	141.2	HYPOTHETICAL 69.2 KD PROTEIN IN HSP30-PMP1 INTERGENIC REGION.	swissprot P25351	ND
2671	141.2	GENOME, PARTIAL SEQUENCE.	sptrembl Q98440	ND
2672	141.2	RIBOSOME-INACTIVATING PROTEIN LUFFIN-B (RRNA N-GLYCOSIDASE) (EC 3.2.2.22).	swissprot P22851	ND
2673	141.1	AGP6 PROTEIN.	sptrembl Q9XFR4	ND
2674	141.1	INSULIN-LIKE PEPTIDE INSL5.	sptrembl Q9WUG6	ND
2675	141.1	T09F5.2 PROTEIN.	sptrembl O62373	ND
2676	141 0	EXTENSIN PRECURSOR (PROLINE-RICH GLYCOPROTEIN).	swissprot P24152	ND
2677	141 0	ANTI-DEATH PROTEIN.	sptrembl O75353	ND
2678	141 0	MITC.	sptrembl Q9WVY1	ND
2679	141 0	109AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9Y9G9	ND
2680	141 0	RECOMBINATION-ACTIVATING PROTEIN 1.	sptrembl Q9W699	ND
2681	141 0	ANTIVIRAL PROTEIN SK12.	swissprot P35207	ND
2682	141 0	NUCLEAR	swissprot P32505	ND

		POLYADENYLATED RNA-BINDING PROTEIN NAB2.		
2683	141.0	HEMAGGLUTININ (FRAGMENT).	tremblnew AAD51242	ND
2684	140.9	FOOT PROTEIN 1 PRECURSOR (FRAGMENT).	sptrembl O61477	ND
2685	140.9	YCZB PROTEIN.	sptrembl O31467	ND
2686	140.9	SARCOPHAGA PRO-CATHEPSIN B PRECURSOR.	sptrembl Q26655	ND
2687	140.9	F6E13.10 PROTEIN.	sptrembl O80567	ND
2688	140.9	T01C3.1 PROTEIN.	sptrembl Q22059	ND
2689	140.8	ERPROT 213-21.	sptrembl O00302	ND
2690	140.8	BAV3 ORF5 product.	geneseqp R75760	ND
2691	140.8	PUTATIVE RAS-RELATED PROTEIN F43D9.2.	swissprot Q20365	ND
2692	140.8	SP85 (FRAGMENT).	sptrembl O61134	ND
2693	140.7	Macadamia integrifolia antimicrobial protein.	geneseqp W62829	ND
2694	140.7	ANTIGENIC PROTEIN PFEMP2 (FRAGMENT).	sptrembl Q06165	ND
2695	140.7	N-MYC PROTO-ONCOGENE PROTEIN.	swissprot P26014	ND
2696	140.7	Human secreted protein #80.	geneseqp Y36208	ND
2697	140.7	HYPOTHETICAL 46.3 KD PROTEIN.	sptrembl Q9X039	ND
2698	140.6	HYPOTHETICAL 32.1 KD PROTEIN.	sptrembl O79459	ND
2699	140.5	F316.13 PROTEIN.	sptrembl O48687	ND
2700	140.5	KAPPA CASEIN PRECURSOR.	sptrembl Q9XSD6	ND
2701	140.5	WINGLESS (FRAGMENT).	sptrembl O46291	ND
2702	140.5	MEROZOITE SURFACE PROTEIN-1 (FRAGMENT).	sptrembl O00877	ND
2703	140.5	KIAA1290 PROTEIN (FRAGMENT).	tremblnew BAA86604	ND
2704	140.5	MAJOR CENTROMERE AUTOANTIGEN B (CENTROMERE PROTEIN B) (CENP-B).	swissprot P48988	ND
2705	140.5	TONB PROTEIN.	swissprot Q05613	ND
2706	140.5	GLUE PROTEIN.	sptrembl Q27423	ND
2707	140.4	HYPOTHETICAL 14.6 KD PROTEIN.	tremblnew CAB57548	ND
2708	140.4	PROTAMINE P1.	sptrembl O18749	ND
2709	140.4	HYPOTHETICAL 18.3 KD PROTEIN.	tremblnew AAF09839	ND
2710	140.4	TRANSPOSON TOL2.	sptrembl Q98969	ND
2711	140.4	VPR PROTEIN.	tremblnew AAF07319	ND
2712	140.4	Intestinal mucin deduced from clone SMUC 41.	geneseqp R07671	ND
2713	140.4	Murine BMP-15 related protein PC-3.	geneseqp W11260	ND
2714	140.3	BZIP TRANSCRIPTION FACTOR.	sptrembl Q24525	ND
2715	140.3	D1086.6 PROTEIN.	sptrembl O17729	ND

2716	140.3	HYPOTHETICAL 30.3 KD PROTEIN.	sptrembl O85856	ND
2717	140.3	FIMP.	sptrembl Q46525	ND
2718	140.3	HMG-Y RELATED PROTEIN B (SB16B PROTEIN) (FRAGMENT).	swissprot Q10370	ND
2719	140.3	NEUTROPHIL PROTEIN (FRAGMENT).	sptrembl Q99331	ND
2720	140.3	PUTATIVE GLYOXYLATE PATHWAY REGULATOR C5D6.09C.	sptrembl O14201	ND
2721	140.3	HYPOTHETICAL 19.1 KD PROTEIN IN PDII-GLK1 INTERGENIC REGION.	swissprot P25571	ND
2722	140.2	HOMEBOX PROTEIN (FRAGMENT).	sptrembl O97671	ND
2723	140.2	TATA BINDING PROTEIN (FRAGMENT).	tremblnew BAA21084	ND
2724	140.2	NUCLEAR SEGREGATION PROTEIN BFR1.	swissprot P38934	ND
2725	140.2	SYNAPSIN IB.	sptrembl O88935	ND
2726	140.2	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN (FRAGMENT).	sptrembl Q40550	ND
2727	140.2	HYPOTHETICAL PROTEIN IN FTR 5'REGION (ORFU) (FRAGMENT).	swissprot P56510	ND
2728	140.2	PUTATIVE TRANSCRIPTIONAL REGULATORY PROTEIN.	tremblnew CAB53122	ND
2729	140.2	Bioadhesive precursor protein from cDNA 52.	geneseqp P82971	ND
2730	140.2	W09G12.6 PROTEIN.	sptrembl O45197	ND
2731	140.2	SIMILAR TO HERV-H PROTEASE AND HERV-E INTEGRASE.	sptrembl Q68997	ND
2732	140.1	MEDEA.	sptrembl O65312	ND
2733	140.1	CYTOCHROME B (FRAGMENT).	tremblnew AAD47483	ND
2734	140.1	F32D1.9 PROTEIN.	sptrembl O16293	ND
2735	140.1	PEARL1 I-LIKE PROTEIN.	tremblnew CAB41719	ND
2736	140.1	ANION EXCHANGE PROTEIN 3 (NEURONAL BAND 3-LIKE PROTEIN) (ANION EXCHANGER 3 BRAIN ISOFORM).	swissnew O18917	ND
2737	140.1	HYPOTHETICAL 55.0 KD PROTEIN.	sptrembl O94256	ND
2738	140.1	Aspergillus niger beta-fructofuranosidase.	geneseqp W23298	ND
2739	140.1	FIBRIL PROTEIN.	sptrembl O66099	ND
2740	140.0	NS3F4 (FRAGMENT).	sptrembl Q86914	ND
2741	140.0	HOMEBOX PROTEIN NK-1 (S59/2).	swissprot P22807	ND
2742	140.0	HYPOTHETICAL 47.8 KD	swissprot P38244	ND

		PROTEIN IN HSP26-TIF32 INTERGENIC REGION.		
2743	139.9	ARGINYL-TRNA SYNTHETASE (EC 6.1.1.19) (ARGININE--TRNA LIGASE) (ARGRS).	swissprot O83803	ND
2744	139.9	T01B7.8 PROTEIN.	sptrembl Q22048	ND
2745	139.9	HOMEBOX PROTEIN HOX-A3 (HOX-1E).	swissprot O43365	ND
2746	139.8	METABOTROPIC GLUTAMATE RECEPTOR (FRAGMENT).	tremblnew AAD47893	ND
2747	139.8	ECDYSONE-INDUCIBLE PROTEIN E75.	swissnew Q08893	ND
2748	139.8	HYPOTHETICAL 21.2 KD PROTEIN IN TOR2-MNN4 INTERGENIC REGION	swissprot P36042	ND
2749	139.8	F40F12.5A PROTEIN.	tremblnew CAB54246	ND
2750	139.7	PREDICTED SECRETED PROTEIN (THROMBOSPONDIN DOMAIN).	sptrembl O96207	ND
2751	139.7	UL7 PROTEIN.	sptrembl Q9YVB6	ND
2752	139.7	Amino acid sequence of a virulence factor encoded by ORF29729.	geneseq Y29213	ND
2753	139.7	UNKNOWN PROTEIN (FRAGMENT).	sptrembl Q29175	ND
2754	139.7	SPERM HISTONE P2 PRECURSOR (PROTAMINE MP2).	swissprot P07978	ND
2755	139.7	PLATELET GLYCOPROTEIN V (FRAGMENT).	tremblnew AAF08787	ND
2756	139.7	ATP OPERON (FRAGMENT).	sptrembl Q53031	ND
2757	139.7	PEPTIDE CHAIN RELEASE FACTOR HOMOLOG (RF-H).	swissprot P28369	ND
2758	139.7	PROBABLE TRANSLATION INITIATION FACTOR IF-2.	swissprot Q10251	ND
2759	139.6	CLASS IV ZYGOTE SPECIFIC CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN (FRAGMENT).	sptrembl Q41178	ND
2760	139.6	NHOA.	sptrembl P96848	ND
2761	139.6	HYPOTHETICAL 30.8 KD PROTEIN.	tremblnew AAF09969	ND
2762	139.6	GAG.	sptrembl Q9Y1H4	ND
2763	139.6	PI021 PROTEIN.	sptrembl O13612	ND
2764	139.6	122AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YBE6	ND
2765	139.6	T13D8.9 PROTEIN.	sptrembl O80743	ND

2766	139.6	MEMBRANE PROTEIN MOSC.	swissprot Q07609	ND
2767	139.5	SIMILARITY TO TYPE I INOSITOL 1.	sptrembl O04649	ND
2768	139.5	COSMID ZK813.	sptrembl Q23606	ND
2769	139.5	Fragmented human NF-L gene +2 frameshift mutant product.	geneseqp W18658	ND
2770	139.5	DNA-DIRECTED RNA POLYMERASE SUBUNIT B' (EC 2.7.7.6).	swissprot P41557	ND
2771	139.5	<i>S. lividans</i> protease P5-6.	geneseqp R80506	ND
2772	139.5	IGG FC BINDING PROTEIN (FRAGMENT).	sptrembl O95784	ND
2773	139.4	EXTENSIN=NODULE-SPECIFIC PROLINE-RICH PROTEIN {CLONE VFNDSE}.	tremblnew G425682	ND
2774	139.4	C01B7.3 PROTEIN.	sptrembl Q17546	ND
2775	139.4	PRECOAT PROTEIN.	sptrembl Q9WPG4	ND
2776	139.3	DELTA-AMINOLEVULINIC ACID DEHYDRATASE (EC 4.2.1.24) (PORPHOBILINOGEN SYNTHASE) (ALADH).	swissnew P05373	ND
2777	139.3	Mammalian ion channel proline rich motif containing peptide #19.	geneseqp Y41625	ND
2778	139.3	CYSTEINE PROTEASE.	tremblnew CAB59816	ND
2779	139.3	UL26 protease deletion mutant DD, amino acids 219-635 deleted.	geneseqp R28645	ND
2780	139.3	Chlamydial major outer membrane protein (MOMP) H fragment.	geneseqp W95280	ND
2781	139.3	L4830.11 PROTEIN.	sptrembl O97215	ND
2782	139.3	CAGO.	sptrembl P94828	ND
2783	139.3	LECTIN=CHITIN-BINDING PROTEIN.	tremblnew G688080	ND
2784	139.2	PUTATIVE PHOSPHATE/PHOSPHOENOLPYRUVATE TRANSLOCATOR.	tremblnew AAD55791	ND
2785	139.2	PUTATIVE GLYCOPROTEIN	sptrembl O36424	ND
2786	139.2	Carbonic anhydrase as deduced from DNA carried on pCCA20.	geneseqp P81228	ND
2787	139.2	Plasmid pASK75 open reading frame (c) translation.	geneseqp R88636	ND
2788	139.2	HYPOTHETICAL 16.6 KD PROTEIN.	sptrembl O67910	ND
2789	139.2	RABPHILIN-3A RELATED PROTEIN.	sptrembl O54880	ND
2790	139.2	HYPOTHETICAL 48.0 KD PROTEIN.	sptrembl Q50175	ND

2791	139.2	HYPOTHETICAL 7.2 KD PROTEIN.	sptrembl Q9X477	ND
2792	139.2	PUTATIVE U4/U6 SMALL NUCLEAR RIBONUCLEOPROTEIN.	tremblnew AAD25639	ND
2793	139.2	DEF chimeric molecule hA110-120/I-E-d-beta/FC-gamma-2a protein.	geneseqp W99773	ND
2794	139.2	SPERM PROTAMINE P1.	swissprot O18747	ND
2795	139.1	ATPASE SUBUNIT 6 (FRAGMENT).	tremblnew AAD34165	ND
2796	139.1	Human HUPF-I mutant protein fragment 33.	geneseqp Y21385	ND
2797	139.1	PROLINE-RICH PROTEIN.	sptrembl O94274	ND
2798	139.1	HYPOTHETICAL 42.7 KD PROTEIN.	tremblnew CAB58294	ND
2799	139.0	F11A6.2 PROTEIN.	sptrembl O62149	ND
2800	139.0	HYPOTHETICAL 47.8 KD PROTEIN YOR009W.	sptrembl Q12218	ND
2801	139.0	HYPOTHETICAL 18.8 KD PROTEIN (ORF4).	swissprot P15605	ND
2802	139.0	105AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YCK7	ND
2803	139.0	PUTATIVE REGULATORY PROTEIN FMDB.	swissprot Q50229	ND
2804	139.0	HOXB-3 PRODUCT.	tremblnew G913072	ND
2805	139.0	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN).	swissprot P13983	ND
2806	139.0	DETHIOBIOTIN SYNTHETASE (EC 6.3.3.3) (DETHIOBIOTIN SYNTHASE) (DTB SYNTHETASE) (DTBS).	swissprot P45486	ND
2807	139.0	PUTATIVE 2,3-BISPHOSPHOGLYCERATE-INDEPENDENT PHOSPHOGLYCERATE MUTASE (EC 5.4.2.1) (PHOSPHOGLYCEROMUTASE) (BPG-INDEPENDENT PGAM).	swissprot Q06464	ND
2808	138.9	SPID PRECURSOR (FRAGMENT).	sptrembl Q23804	ND
2809	138.9	SIMILAR TO HUMAN MRNA FOR ALPHA 1.	sptrembl Q9XJ18	ND
2810	138.9	OPA REPEAT (FRAGMENT).	sptrembl Q62006	ND
2811	138.9	NADH DEHYDROGENASE SUBUNIT 3.	tremblnew BAA84934	ND
2812	138.9	PMS2 RELATED PROTEIN HPMSR6.	sptrembl Q13670	ND
2813	138.9	Human 5' EST secreted protein SEQ ID NO:250.	geneseqp Y11598	ND
2814	138.9	N-ACETYLGLUCOSAMINE-	sptrembl O50225	ND

		1-PHOSPHATE URIDYLTRANSFERASE (GLMU) (FRAGMENT).		
2815	138.8	COAT PROTEIN.	sptrembl Q84827	ND
2816	138.8	PDHB.	sptrembl O06160	ND
2817	138.8	NON-STRUCTURAL 5A PROTEIN (FRAGMENT).	sptrembl Q68657	ND
2818	138.8	VEGF/CPG2 fusion protein CPV165H6.	geneseqp W38237	ND
2819	138.8	F38B7.1 PROTEIN.	sptrembl Q20155	ND
2820	138.8	Human breast tumour- associated protein 30.	geneseqp Y48569	ND
2821	138.8	LIM PROTEIN PIN-2.	swissprot Q19157	ND
2822	138.8	AT2G28660 PROTEIN.	tremblnew AAD24369	ND
2823	138.8	CYSTEINE-RICH OUTER MEMBRANE PROTEIN 3 PRECURSOR.	swissprot P27606	ND
2824	138.8	TRANSITION PROTEIN 2.	sptrembl O77645	ND
2825	138.8	K08F4.2 PROTEIN.	sptrembl Q21351	ND
2826	138.7	138AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YF84	ND
2827	138.7	SPERMATID-SPECIFIC PROTEIN S1.	swissprot P13275	ND
2828	138.7	MHC CELL SURFACE GLYCOPROTEIN (FRAGMENT).	sptrembl Q31250	ND
2829	138.7	HYPOTHETICAL 14.6 KD PROTEIN.	sptrembl Q54774	ND
2830	138.7	U1-SNRNP BINDING PROTEIN HOMOLOG.	sptrembl Q16560	ND
2831	138.7	HYPOTHETICAL 29.1 KD PROTEIN.	sptrembl Q50506	ND
2832	138.6	TAT PROTEIN.	sptrembl O93199	ND
2833	138.6	Human acid sphingomyelinase mutant fsP330.	geneseqp W35283	ND
2834	138.6	K03D3.4 PROTEIN.	sptrembl O45642	ND
2835	138.6	GEP PROTEIN.	tremblnew BAA85464	ND
2836	138.6	HYPOTHETICAL 6.6 KD PROTEIN.	sptrembl P74795	ND
2837	138.5	ALTERNATIVE OXIDASE.	sptrembl O48519	ND
2838	138.5	K01A2.2 PROTEIN.	tremblnew AAC69504	ND
2839	138.5	HOMOLOGUE OF RETROVIRAL PSEUDOPROTEINASE.	sptrembl Q85302	ND
2840	138.5	ORF YOR053W.	sptrembl Q08428	ND
2841	138.5	CYTOCHROME BC SUBUNIT IV PETD.	sptrembl Q9ZGF9	ND
2842	138.5	GERANYLGERANYL PYROPHOSPHATE SYNTHASE-RELATED PROTEIN PRECURSOR.	sptrembl Q39108	ND
2843	138.5	SEED STORAGE PROTEIN 31 aa, chain A	pdb 1PNB	ND

2844	138.4	Immunodominant fragment of flagellar pocket antigen of <i>T. brucei</i> .	geneseqp R85174	ND
2845	138.4	RIBONUCLEOSIDE-DIPHOSPHATE REDUCTASE SMALL CHAIN (EC 1.17.4.1) (RIBONUCLEOTIDE REDUCTASE M2 SUBUNIT).	swissprot O46310	ND
2846	138.4	ALGINATE LYASE PRECURSOR (EC 4.2.2.3) (POLY(BETA-D-MANNURONATE) LYASE) (POLY(MANA) ALGINATE LYASE).	swissprot Q59478	ND
2847	138.4	Protein encoded by ORF A of the EcoRI-EcoRI fragment of ILTV.	geneseqp W71199	ND
2848	138.4	HYPOTHETICAL BHLF1 PROTEIN.	swissprot P03181	ND
2849	138.4	140-KD SECRETORY PROTEIN (SP140) (FRAGMENT).	sptrembl Q23802	ND
2850	138.4	Human 5' EST secreted protein SEQ ID No: 502.	geneseqp Y11902	ND
2851	138.3	TOPOISOMERASE.	sptrembl Q9Z5W4	ND
2852	138.3	KERATIN, ULTRA HIGH-SULFUR MATRIX PROTEIN (UHS KERATIN).	swissprot P26372	ND
2853	138.3	GLUE PROTEIN.	sptrembl Q27423	ND
2854	138.3	T11J7.8 PROTEIN.	sptrembl O49334	ND
2855	138.3	HYPOTHETICAL 31.4 KD PROTEIN B0285.2 IN CHROMOSOME III.	swissprot P46552	ND
2856	138.3	MEMBRANE ASSOCIATED PROTEIN.	sptrembl O89260	ND
2857	138.3	PUTATIVE ALCOHOL DEHYDROGENASE.	tremblnew AAF04851	ND
2858	138.3	KILLER CELL LECTIN-LIKE RECEPTOR 7 (T-CELL SURFACE GLYCOPROTEIN LY-49G) (LY49-G ANTIGEN).	swissnew Q60654	ND
2859	138.3	RNA-BINDING PROTEIN 5 (FRAGMENT).	sptrembl Q26275	ND
2860	138.3	<i>B. burgdorferi</i> antigenic protein, 1940.aa.	geneseqp Y19811	ND
2861	138.2	Peptide resembling an SH3 domain binding peptide SEQ ID NO: 366.	geneseqp W38969	ND
2862	138.2	ALPHA/BETA-GLIADIN CLONE PW8142 PRECURSOR (PROLAMIN).	swissprot P04727	ND
2863	138.2	MITOTIC MAD2 PROTEIN.	swissprot P40958	ND
2864	138.2	KIAA0339.	sptrembl O15047	ND
2865	138.2	CAPSID PROTEIN (CP).	sptrembl Q9WIJ8	ND

2866	138.2	MYB-LIKE DNA-BINDING DOMAIN PROTEIN.	sptrembl O49019	ND
2867	138.2	HYPOTHETICAL 71.1 KD PROTEIN.	sptrembl O65642	ND
2868	138.2	RNPH PROTEIN (FRAGMENT).	tremblnew CAB60663	ND
2869	138.1	284R.	sptrembl O71105	ND
2870	138.1	F14F9.2 PROTEIN.	sptrembl O17062	ND
2871	138.1	D4B DOPAMINE RECEPTOR.	sptrembl O42322	ND
2872	138.1	T31E10.8 PROTEIN.	sptrembl O64689	ND
2873	138.1	GC-B.	geneseqp R38863	ND
2874	138.1	WW DOMAIN BINDING PROTEIN 11.	sptrembl O88539	ND
2875	138.1	Intestinal mucin deduced from clone SMUC 41.	geneseqp R07671	ND
2876	138.0	PUTATIVE KINESIN MOTOR PROTEIN (FRAGMENT).	tremblnew BAA87207	ND
2877	138.0	HYPOTHETICAL 26.5 KD PROTEIN.	sptrembl O49443	ND
2878	138.0	RORGAMMA T.	tremblnew AAD46913	ND
2879	138.0	PROBABLE THIOREDOXIN.	swissprot Q09433	ND
2880	138.0	HYPOTHETICAL 43.0 KD PROTEIN.	tremblnew CAB57416	ND
2881	138.0	Human neurofilament-H mutant protein fragment 2.	geneseqp Y20843	ND
2882	138.0	TACHYLECTIN-3 PRECURSOR.	sptrembl O97404	ND
2883	138.0	UBIQUITIN-CONJUGATING ENZYME E2 (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN).	sptrembl Q9Y2D3	ND
2884	138.0	LUTROPIN BETA CHAIN (LUTEINIZING HORMONE) (LSH-B) (LH-B).	swissprot P25330	ND
2885	137.9	SERINE 1 ULTRA HIGH SULFUR PROTEIN.	sptrembl Q64507	ND
2886	137.9	GLYCOPROTEIN B (FRAGMENT).	tremblnew AAD46114	ND
2887	137.9	ISLET-BRAIN 1.	tremblnew AAD20443	ND
2888	137.9	ORNITHINE DECARBOXYLASE ANTIZYME 2 (ODC-AZ 2) (AZ2).	swissnew O95190	ND
2889	137.9	HOMEBOX PROTEIN HOX-D3.	swissprot O93353	ND
2890	137.9	ORF2 5' OF EPOR.	sptrembl Q64239	ND
2891	137.9	AKIN GAMMA.	tremblnew CAB64718	ND
2892	137.9	Human secreted protein encoded by gene No. 80.	geneseqp Y27646	ND
2893	137.8	CHITINASE II PRECURSOR	sptrembl Q59145	ND

		(EC 3.2.1.14).		
2894	137.8	117AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YD41	ND
2895	137.8	T27A16.25 PROTEIN.	sptrembl O82390	ND
2896	137.8	LIM HOMEODOMAIN TRANSCRIPTION FACTOR.	sptrembl O96686	ND
2897	137.8	BINDIN PRECURSOR (FRAGMENT).	tremblnew AAF07137	ND
2898	137.8	Putative calcium channel encoded by clone SCCL-B.	geneseqp R34550	ND
2899	137.8	HEMOMUCIN.	sptrembl Q24160	ND
2900	137.8	73AA LONG HYPOTHETICAL 30S RIBOSOMAL PROTEIN S27.	sptrembl Q9YF01	ND
2901	137.8	HYPOTHETICAL 16.4 KD PROTEIN (FRAGMENT).	sptrembl O18970	ND
2902	137.7	FEMALE-SPECIFIC TRANSFORMER PROTEIN.	swissprot Q23949	ND
2903	137.7	ZINC FINGER PROTEIN 80 (ZNFPT17).	swissprot P51504	ND
2904	137.7	CYSTEINE-RICH PROTEIN (FRAGMENT).	sptrembl Q16861	ND
2905	137.7	EGF motif containing protein.	geneseqp Y18109	ND
2906	137.7	TRANSCRIPTION FACTOR ATF-A AND ATF-A-DELTA.	swissnew P17544	ND
2907	137.7	HYPOTHETICAL 26.6 KD PROTEIN C17A2.10C IN CHROMOSOME I.	sptrembl O13760	ND
2908	137.7	Human DIP protein C-terminal sequence.	geneseqp Y18027	ND
2909	137.7	ENDOCHITINASE ISOLOG.	sptrembl Q24654	ND
2910	137.6	GLUE PROTEIN.	sptrembl Q27423	ND
2911	137.6	ACETYLCHOLINE RECEPTOR PROTEIN, ALPHA-1A CHAIN PRECURSOR.	swissprot P22456	ND
2912	137.6	POTENTIAL PROTEASOME ACTIVATOR HPA28 SUBUNIT BETA (FRAGMENT).	sptrembl Q95292	ND
2913	137.6	Human CD2:IgG2a constant region fusion protein.	geneseqp W35861	ND
2914	137.5	HYPOTHETICAL LYSINE- RICH PROTEIN.	tremblnew CAB52566	ND
2915	137.5	NUCLEAR TRANSITION PROTEIN 2 (TP-2).	swissprot Q05952	ND
2916	137.5	PUTATIVE RHO/RAC GUANINE NUCLEOTIDE EXCHANGE FACTOR (RHO/RAC GEF) (FACIOGENITAL DYSPLASIA PROTEIN).	swissprot P98174	ND
2917	137.5	NADH DEHYDROGENASE SUBUNIT F (FRAGMENT).	tremblnew AAF08186	ND
2918	137.5	BRANCHED-CHAIN AMINO ACID ABC TRANSPORTER.	sptrembl O28878	ND

		PERMEASE PROTEIN (BRAE-4).		
2919	137.5	118AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9Y951	ND
2920	137.4	PUTATIVE CHITIN SYNTHASE (EC 2.4.1.16).	sptrembl Q9Y7H9	ND
2921	137.4	ARABINO GALACTAN-PROTEIN.	sptrembl Q9ZT16	ND
2922	137.4	HYPOTHETICAL 32.5 KD PROTEIN F52C9.6 IN CHROMOSOME III.	swissprot Q10126	ND
2923	137.3	PUTATIVE TRANSMEMBRANE EFFLUX PROTEIN (FRAGMENT).	tremblnew CAB60461	ND
2924	137.3	Gp IIb/IIIa receptor ligand used in scintigraphic imaging of thrombi.	geneseqp R69293	ND
2925	137.3	HYPOTHETICAL 41.0 KD PROTEIN C1F8.06 IN CHROMOSOME I.	swissprot Q92344	ND
2926	137.3	VITAMIN D RECEPTOR-INTERACTING PROTEIN.	sptrembl Q9Y652	ND
2927	137.3	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew AAF10237	ND
2928	137.3	CYTOCHROME B.	swissprot Q37713	ND
2929	137.2	Mycobacterium tuberculosis specific DNA-encoded polypeptide.	geneseqp Y31745	ND
2930	137.2	GCD14 PROTEIN.	swissprot P46959	ND
2931	137.2	UBIQUITIN ACTIVATING ENZYME.	sptrembl O82692	ND
2932	137.2	PROTEASE VII PRECURSOR (EC 3.4.21.87) (OMPTIN) (OUTER MEMBRANE PROTEIN 3B) (PROTEASE A).	swissprot P09169	ND
2933	137.2	ENVELOPE GLYCOPROTEIN (FRAGMENT).	sptrembl Q70525	ND
2934	137.1	EBA-175 (FRAGMENT).	tremblnew AAB52719	ND
2935	137.1	FLOCCULIN (FRAGMENT).	sptrembl P87107	ND
2936	137.1	CYTIDINE DEAMINASE 8.	sptrembl Q9XHQ8	ND
2937	137.1	N-terminal fragment of secretory leukocyte protease inhibitor.	geneseqp R84055	ND
2938	137.1	PUTATIVE RING ZINC FINGER PROTEIN.	tremblnew AAD24830	ND
2939	137.1	AMELOGENIN, CLASS I PRECURSOR.	swissprot P02817	ND

Table 2. *Aspergillus niger* ESTs

Sequence	zscore	Annotation	Database	Functional
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Listing				Category
3771	4033.3	GLUCOAMYLASE G1 AND G2 PRECURSOR (EC 3.2.1.3) (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN GLUCOHYDROLASE).	swissprot P04064	ND
3772	1863.3	Glycosyltransferase.	geneseqp R42995	ND
3773	1724.7	Porphobilinogen synthase.	geneseqp W41499	Coenzyme metabolism
3774	1648.5	Aspergillus awamori glucoamylase mutant N20C, A27C, S30P, G137A.	geneseqp W55977	ND
3775	1543.7	ALPHA-AMYLASE A PRECURSOR (EC 3.2.1.1) (TAKA-AMYLASE A) (TAA) (1,4-ALPHA-D-GLUCAN GLUCANOHYDROLASE).	swissprot P10529	ND
3776	1534.2	ACID ALPHA-AMYLASE (EC 3.2.1.1) (1,4-ALPHA-D-GLUCAN GLUCANOHYDROLASE).	swissprot P56271	ND
3777	1364.8	PUTATIVE THIAZOLE SYNTHASE.	tremblnew AAF25444	ND
3778	1339.2	A. oryzae DEBY932 locus protein sequence.	geneseqp Y39873	Carbohydrate transport and metabolism
3779	1321.0	CYTOCHROME C OXIDASE SUBUNIT V.	sptrembl O93980	ND
3780	1285.2	ADP-RIBOSYLATION FACTOR.	swissprot P34727	ND
3781	1250.9	POLYUBIQUITIN.	sptrembl O74274	ND
3782	1220.9	C-4 METHYL STEROL OXIDASE (EC 1.-.-.-).	swissprot O59933	ND
3783	1218.0	Sphingomonas capsulata aminopeptidase I.	geneseqp W89587	ND
3784	1203.0	Aspergillus awamori glucoamylase mutant N20C, A27C.	geneseqp W55976	ND
3785	1195.2	Aspergillus niger glucoamylase enzyme.	geneseqp Y23338	ND
3786	1156.2	Plasmid pASK75 open reading frame (b) translation.	geneseqp R88635	ND
3787	1150.6	60S RIBOSOMAL PROTEIN L7-C.	swissprot O60143	Translation, ribosomal structure and biogenesis
3788	1150.4	60S RIBOSOMAL PROTEIN L10.	tremblnew CAA22664	Translation, ribosomal structure and biogenesis
3789	1149.4	Truncated A. niger glucoamylase G1 protein sequence.	geneseqp Y18090	ND
3790	1145.5	An enzyme with sugar transferase activity.	geneseqp W88044	ND

3791	1144.1	ACID-STABLE ALPHA-AMYLASE.	sptrembl O13296	ND
3792	1140.9	PUTATIVE THIAZOLE SYNTHASE.	tremblnew AAF25444	ND
3793	1138.7	RIBOSOMAL PROTEIN S28.	tremblnew CAB56815	Translation, ribosomal structure and biogenesis
3794	1135.4	40S RIBOSOMAL PROTEIN S5 (S2) (YS8) (RP14).	swissprot P26783	Translation, ribosomal structure and biogenesis
3795	1133.4	UBI1.	tremblnew AAF24230	ND
3796	1122.5	ALPHA-AMYLASE A PRECURSOR (EC 3.2.1.1) (1,4-ALPHA-D-GLUCAN GLUCANOHYDROLASE A).	swissprot Q02905	ND
3797	1108.7	SERYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.11) (SERINE--TRNA LIGASE) (SERRS).	swissprot O14018	Translation, ribosomal structure and biogenesis
3798	1106.3	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE (EC 1.2.1.12) (GAPDH).	swissprot Q12552	Carbohydrate transport and metabolism
3799	1072.2	Aspergillus awamori glucoamylase mutant N20C, A27C.	geneseqp W55976	ND
3800	1060.9	Aspergillus awamori glucoamylase mutant N20C, A27C.	geneseqp W55976	ND
3801	1053.5	RASP F 9 (FRAGMENT).	sptrembl O42800	Carbohydrate transport and metabolism
3802	1036.4	FRUCTOSE-BISPHOSPHATE ALDOLASE (EC 4.1.2.13).	swissprot P53444	Carbohydrate transport and metabolism
3803	1034.1	TRANSPOSASE.	sptrembl O00050	ND
3804	1026.3	40S RIBOSOMAL PROTEIN S15 (S12).	swissprot P34737	Translation, ribosomal structure and biogenesis
3805	1022.0	60S RIBOSOMAL PROTEIN L2 (YL6) (L5) (RP8).	swissprot P05736	Translation, ribosomal structure and biogenesis
3806	1014.6	ADENOSINE-5'-PHOSPHOSULFATE KINASE (EC 2.7.1.25) (ADENYLYLSULFATE KINASE) (APS KINASE)	sptrembl Q12657	Inorganic ion transport and metabolism
3807	1009.1	CYCLOPHILIN-LIKE PEPTIDYL PROLYL CIS-TRANS ISOMERASE (EC 5.2.1.8).	sptrembl O94184	Posttranslational modification, protein turnover, chaperones

3808	1001.9	HISTONE H2A.	sptrembl O13413	ND
3809	993.9	ARP2/3 COMPLEX 20 KD SUBUNIT (P20-ARC).	swissprot O15509	ND
3810	964.0	UBIQUITIN.	sptrembl Q9Y736	ND
3811	963.2	60S RIBOSOMAL PROTEIN L8 (L7A) (L4).	swissprot O13672	Translation, ribosomal structure and biogenesis
3812	955.7	UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL PRECURSOR (EC 1.10.2.2) (RIESKE IRON-SULFUR PROTEIN) (RISP).	swissprot P07056	Energy production and conversion
3813	952.3	ENOLASE (EC 4.2.1.11) (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D- GLYCERATE HYDRO-LYASE).	swissprot Q12560	Carbohydrate transport and metabolism
3814	950.5	RIBOSOMAL PROTEIN L13A.	tremblnew AAD54383	Translation, ribosomal structure and biogenesis
3815	935.8	Aspergillus awamori glucoamylase mutant N20C, A27C.	geneseqp W55976	ND
3816	933.7	PROTEIN DISULFIDE ISOMERASE PRECURSOR (PDI) (EC 5.3.4.1).	swissnew Q12730	ND
3817	930.5	60S RIBOSOMAL PROTEIN L23.	swissprot Q07760	Translation, ribosomal structure and biogenesis
3818	928.4	Aspergillus awamori glucoamylase mutant N20C, A27C, S411A.	geneseqp W55980	ND
3819	926.5	ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P23704	Energy production and conversion
3820	912.5	40S RIBOSOMAL PROTEIN S4 (S7) (YS6) (RP5).	swissprot P05753	Translation, ribosomal structure and biogenesis
3821	909.6	HYPOTHETICAL 32.5 KD PROTEIN YLR351C.	swissprot P49954	ND
3822	907.3	60S ACIDIC RIBOSOMAL PROTEIN P0 (L10E).	swissprot P05317	Translation, ribosomal structure and biogenesis
3823	897.7	40S RIBOSOMAL PROTEIN S17 (CRP3).	swissprot P27770	Translation, ribosomal structure and biogenesis
3824	897.5	Aspergillus awamori glucoamylase mutant S411A.	geneseqp W55979	ND

3825	884.9	5-METHYLTETRAHYDROPTEROYLTRIGLUTAMATE--HOMOCYSTEINE METHYLTRANSFERASE(EC 2.1.1.14).	tremblnew CAB57427	Amino acid transport and metabolism
3826	880.2	Aspergillus awamori glucoamylase mutant N20C, A27C.	geneseqp W55976	ND
3827	879.3	Aspergillus awamori glucoamylase mutant N20C, A27C, S30P, G137A.	geneseqp W55977	ND
3828	877.7	60S RIBOSOMAL PROTEIN L20 (L18A).	swissprot P47913	ND
3829	869.3	MONOUBIQUITIN/CARBOXY EXTENSION PROTEIN FUSION.	sptrembl O74216	ND
3830	868.8	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE (EC 1.2.1.12) (GAPDH).	swissprot Q12552	Carbohydrate transport and metabolism
3831	867.9	UBIQUITIN FUSION PROTEIN.	sptrembl Q9Y854	ND
3832	865.9	Yeast ribosomal protein S7.	geneseqp W36115	Translation, ribosomal structure and biogenesis
3833	862.0	FATTY ACID SYNTHASE, BETA SUBUNIT.	sptrembl P78616	Lipid metabolism
3834	859.7	CYTOCHROME C.	swissprot P56205	ND
3835	856.3	ADP/ATP CARRIER PROTEIN (ADP/ATP TRANSLOCASE) (ADENINE NUCLEOTIDE TRANSLOCATOR) (ANT).	swissprot P02723	ND
3836	856.3	60S RIBOSOMAL PROTEIN L27A (L29).	swissprot P78987	Translation, ribosomal structure and biogenesis
3837	855.9	ALPHA-AMYLASE (EC 3.2.1.1).	tremblnew AAF14264	ND
3838	851.3	PROBABLE PEROXISOMAL MEMBRANE PROTEIN PMP20 (ALLERGEN ASP F 3).	swissprot O43099	ND
3839	850.9	NON-FUNCTIONAL FOLATE BINDING PROTEIN.	sptrembl O14597	ND
3840	837.5	ASPARAGINYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.22) (ASPARAGINE--TRNA LIGASE) (ASNRS).	swissprot P38707	Translation, ribosomal structure and biogenesis
3841	835.4	ATP SYNTHASE DELTA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34)	swissnew P56525	Energy production and conversion

		(FRAGMENT).		
3842	821.8	HISTONE H3.	swissprot P23753	DNA replication, recombination and repair
3843	821.7	60S RIBOSOMAL PROTEIN L18.	swissnew Q10192	Translation, ribosomal structure and biogenesis
3844	817.6	Aspergillus awamori glucoamylase mutant N20C, A27C, S30P, G137A.	geneseqp W55977	ND
3845	803.2	Ribosomal protein L41.	geneseqp R77658	Translation, ribosomal structure and biogenesis
3846	797.5	60S RIBOSOMAL PROTEIN L9-B (L8) (YL11) (RP25).	swissprot P51401	Translation, ribosomal structure and biogenesis
3847	797.2	NMT1 PROTEIN HOMOLOG.	swissprot P42882	Inorganic ion transport and metabolism
3848	797.1	Truncated A. niger glucoamylase G1 protein sequence.	geneseqp Y18090	ND
3849	791.7	GLUCOAMYLASE.	sptrembl Q02296	ND
3850	788.8	40S RIBOSOMAL PROTEIN S22 (S15A) (YS24).	swissprot P33953	Translation, ribosomal structure and biogenesis
3851	769.6	VACUOLAR ATP SYNTHASE SUBUNIT B (EC 3.6.1.34) (V-ATPASE 57 KD SUBUNIT).	swissprot P11593	Energy production and conversion
3852	760.4	NUCLEOSIDE DIPHOSPHATE KINASE.	tremblnew BAA83495	Nucleotide transport
3853	759.6	MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR (EC 1.1.1.37).	swissprot P17505	Energy production and conversion
3854	759.5	40S RIBOSOMAL PROTEIN S2 (S4) (YS5) (RP12) (OMNIPOTENT SUPPRESSOR PROTEIN SUP44).	swissprot P25443	Translation, ribosomal structure and biogenesis
3855	756.4	SPERMIDINE SYNTHASE.	sptrembl Q9Y8H7	Amino acid transport and metabolism
3856	756.3	60S RIBOSOMAL PROTEIN L20 (L18A).	swissprot P47913	ND
3857	755.3	Truncated A. niger glucoamylase G1 protein sequence.	geneseqp Y18090	ND
3858	753.8	Candida albicans fungal antigen - allergen SEQ ID NO:5.	geneseqp W53251	Energy production and conversion
3859	748.8	PEPTIDYL-PROLYL	sptrembl O42735	Posttranslational

		CIS/TRANS ISOMERASE.		modification, protein turnover, chaperones
3860	733.6	60S RIBOSOMAL PROTEIN L17-B (YL17-B).	swissprot P46990	Translation, ribosomal structure and biogenesis
3861	728.8	PUTATIVE ADENOSINE KINASE.	tremblnew AAF23253	Carbohydrate transport and metabolism
3862	723.7	HIT FAMILY PROTEIN 1.	swissprot Q04344	ND
3863	723.4	Aspergillus awamori glucoamylase mutant N20C, A27C, S411A.	geneseqp W55980	ND
3864	719.9	OUTER MITOCHONDRIAL MEMBRANE PROTEIN PORIN.	swissprot P07144	ND
3865	716.9	40S RIBOSOMAL PROTEIN S26E (CRP5) (13.6 KD RIBOSOMAL PROTEIN).	swissprot P21772	ND
3866	715.0	HYPOTHETICAL 27.9 KD PROTEIN C22A12.17C IN CHROMOSOME I.	sptrembl O13908	ND
3867	706.4	HYDROLASE 108 aa	pdb 1AC0	ND
3868	695.7	EF-HAND PROTEIN.	tremblnew CAB55175	ND
3869	694.9	POLYSACCHARIDE DEGRADATION 108 aa	pdb 1ACZ	ND
3870	690.7	PUTATIVE ARSENICAL PUMP-DRIVING ATPASE (EC 3.6.1.-) (ARSENITE- TRANSLOCATING ATPASE) (ARSENICAL RESISTANCE ATPASE).	swissnew P30632	Inorganic ion transport and metabolism
3871	690.1	MULTICATALYTIC PROTEINASE 222 aa, chain M+1	pdb 1RYP	Posttranslational modification, protein turnover, chaperones
3872	679.0	DIHYDROLIPOAMIDE ACETYLTRANSFERASE COMPONENT OF PYRUVATE DEHYDROGENASE COMPLEX, MITOCHONDRIAL PRECURSOR (EC 2.3.1.12) (E2) (PDC-E2) (MRP3).	swissprot P20285	Energy production and conversion
3873	672.8	OLIGO-1,4-1,4- GLUCANTRANSFERASE AMYLO-1,6-GLUCOSIDASE.	sptrembl O93808	Carbohydrate transport and metabolism
3874	671.9	CYCLIN-DEPENDENT KINASES REGULATORY SUBUNIT (CELL DIVISION CONTROL PROTEIN CKS1).	swissprot P20486	ND
3875	665.8	Sequence encoded by A.awamori glucoamylase genomic region.	geneseqp P40212	ND

3876	642.3	HISTONE H3.	swissprot P23753	DNA replication, recombination and repair
3877	635.2	CYCLOPHILIN B (EC 5.2.1.8).	sptrembl O94190	Posttranslational modification, protein turnover, chaperones
3878	631.8	ALPHA-AMYLASE A PRECURSOR (EC 3.2.1.1) (1,4-ALPHA-D-GLUCAN GLUCANOHYDROLASE A).	swissprot Q02905	ND
3879	630.4	60S RIBOSOMAL PROTEIN L3.	tremblnew AAF15600	Translation, ribosomal structure and biogenesis
3880	628.4	NUCLEOSIDE DIPHOSPHATE KINASE.	tremblnew BAA83495	Nucleotide transport
3881	627.1	D-LACTATE DEHYDROGENASE [CYTOCHROME] PRECURSOR (EC 1.1.2.4) (D-LACTATE FERRICYTOCHROME C OXIDOREDUCTASE) (D-LCR).	swissprot Q12627	Energy production and conversion
3882	626.8	HYPOTHETICAL 34.3 KD PROTEIN.	sptrembl O43015	ND
3883	626.6	40S RIBOSOMAL PROTEIN S22 (S15A) (YS24).	swissprot P33953	Translation, ribosomal structure and biogenesis
3884	625.1	HYPOTHETICAL 20.9 KD PROTEIN.	sptrembl O94286	ND
3885	620.0	VACUOLAR ATP SYNTHASE 16 KD PROTEOLIPID SUBUNIT (EC 3.6.1.34).	swissprot Q00607	Energy production and conversion
3886	619.1	PI023 PROTEIN.	sptrembl O13614	ND
3887	611.8	RS6/L7A RIBOSOMAL PROTEIN HOMOLOG.	sptrembl O74690	Translation, ribosomal structure and biogenesis
3888	611.0	RIBOSOMAL PROTEIN L32E.	sptrembl O94008	Translation, ribosomal structure and biogenesis
3889	610.2	SUR2 PROTEIN (SYRINGOMYCIN RESPONSE PROTEIN 2).	swissprot P38992	ND
3890	609.0	HYPOTHETICAL 15.9 KD PROTEIN C4A8.02C IN CHROMOSOME I.	swissprot O14155	ND
3891	608.4	PUTATIVE TRANSPORTER YIL166C.	swissprot P40445	ND
3892	605.6	PUTATIVE CTP SYNTHASE C10F6.03C (EC 6.3.4.2) (UTP-AMMONIA LIGASE	sptrembl O42644	Nucleotide transport

		C10F6.03C) (CTP SYNTHETASE C10F6.03C).		
3893	602.5	NUCLEAR TRANSPORT FACTOR 2 (NTF-2) (NUCLEAR TRANSPORT FACTOR P10).	swissprot P33331	ND
3894	601.5	PROTEIN TRANSLATION FACTOR SUI1.	swissprot P32911	Translation, ribosomal structure and biogenesis
3895	599.9	HYPOTHETICAL 12.5 KD PROTEIN.	sptrembl O74948	ND
3896	598.8	HYDROLASE 108 aa	pdb 1AC0	ND
3897	594.2	Beta-1 integrin modulator B171.	geneseqp W19771	ND
3898	591.9	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE (EC 1.2.1.12) (GAPDH).	swissprot Q12552	Carbohydrate transport and metabolism
3899	589.2	60S RIBOSOMAL PROTEIN L12.	swissprot O75000	Translation, ribosomal structure and biogenesis
3900	588.0	60S RIBOSOMAL PROTEIN L30.	tremblnew CAB54828	Translation, ribosomal structure and biogenesis
3901	584.7	RIBOSOMAL PROTEIN L31.	sptrembl Q9XGL4	Translation, ribosomal structure and biogenesis
3902	579.0	NADH-UBIQUINONE OXIDOREDUCTASE 12 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-12KD) (CI-12KD).	swissprot Q03015	ND
3903	574.1	60S RIBOSOMAL PROTEIN L43 (L37A) (YL35).	swissprot P49631	Translation, ribosomal structure and biogenesis
3904	570.3	60S RIBOSOMAL PROTEIN L35.	swissprot P17078	Translation, ribosomal structure and biogenesis
3905	570.2	D-LACTATE DEHYDROGENASE [CYTOCHROME] PRECURSOR (EC 1.1.2.4) (D-LACTATE FERRICYTOCHROME C OXIDOREDUCTASE) (D-LCR).	swissprot Q12627	Energy production and conversion
3906	569.3	60S RIBOSOMAL PROTEIN L34-B.	swissprot P40525	Translation, ribosomal structure and biogenesis

3907	565.0	GATA TRANSCRIPTION FACTOR.	sptrembl O59842	ND
3908	560.4	60S RIBOSOMAL PROTEIN L43 (L37A) (YL35).	swissprot P49631	Translation, ribosomal structure and biogenesis
3909	557.9	PROBABLE SUCCINYL-COA:3-KETOACID-COENZYME A TRANSFERASE PRECURSOR (EC 2.8.3.5) (3-OXOACID COA-TRANSFERASE).	swissprot Q09450	Lipid metabolism
3910	555.7	HYPOTHETICAL 31.6 KD PROTEIN.	sptrembl O13844	ND
3911	548.3	RIBOSOMAL PROTEIN L26 (FRAGMENT).	sptrembl O82579	Translation, ribosomal structure and biogenesis
3912	546.8	40S RIBOSOMAL PROTEIN S20.	swissprot O74893	Translation, ribosomal structure and biogenesis
3913	546.1	IGE-BINDING PROTEIN (FRAGMENT).	sptrembl O74263	ND
3914	543.1	40S RIBOSOMAL PROTEIN S27.	swissprot O74330	Translation, ribosomal structure and biogenesis
3915	537.5	2-OXOGLUTARATE DEHYDROGENASE E1 COMPONENT, MITOCHONDRIAL PRECURSOR (EC 1.2.4.2) (ALPHA-KETOGLUTARATE DEHYDROGENASE).	swissprot P20967	Energy production and conversion
3916	536.2	40S RIBOSOMAL PROTEIN S27.	swissprot O74330	Translation, ribosomal structure and biogenesis
3917	535.7	HYPOTHETICAL 21.4 KD PROTEIN C19A8.14 IN CHROMOSOME I.	sptrembl O13830	ND
3918	534.3	60S ACIDIC RIBOSOMAL PROTEIN P0 (L10E).	swissprot P05317	Translation, ribosomal structure and biogenesis
3919	529.2	ACYL CARRIER PROTEIN, MITOCHONDRIAL PRECURSOR (ACP) (NADH-UBIQUINONE OXIDOREDUCTASE 9.6 KD SUBUNIT) (EC 1.6.5.3) (EC 1.6.99.3).	swissprot P11943	ND
3920	527.2	PROBABLE GYP7 PROTEIN (FRAGMENT).	swissprot P09379	ND
3921	523.2	ATP SYNTHASE GAMMA	sptrembl O74754	Energy

		CHAIN, MITOCHONDRIAL PRECURSOR.		production and conversion
3922	522.6	S-ADENOSYLMETHIONINE DECARBOXYLASE (EC 4.1.1.50) (FRAGMENT).	sptrembl Q9Y8A3	ND
3923	519.9	An enzyme with sugar transferase activity.	geneseqp W88044	ND
3924	511.6	ACETOLACTATE SYNTHASE SMALL SUBUNIT PRECURSOR (EC 4.1.3.18) (AHAS) (ACETOHYDROXY-ACID SYNTHASE SMALL SUBUNIT) (ALS).	swissnew P25605	Amino acid transport and metabolism
3925	511.2	NADH-UBIQUINONE OXIDOREDUCTASE 21.3 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3).	swissprot P25710	ND
3926	511.0	THIOREDOXIN.	swissprot P29429	ND
3927	509.0	Protein encoded by multiple drug resistance gene atrD.	geneseqp Y02630	ND
3928	505.7	HYDROLASE 108 aa	pdb 1KUM	ND
3929	503.5	HYPOTHETICAL 52.3 KD PROTEIN.	tremblnew CAB58401	ND
3930	502.5	RIBOSOMAL PROTEIN L26 (FRAGMENT).	sptrembl O82579	Translation, ribosomal structure and biogenesis
3931	499.0	UBIQUINOL- CYTOCHROME C REDUCTASE COMPLEX SUBUNIT.	sptrembl O74533	ND
3932	498.8	A. fumigatus allergen rAsp f8 sequence.	geneseqp W61478	Translation, ribosomal structure and biogenesis
3933	490.7	VACUOLAR ATP SYNTHASE SUBUNIT G (EC 3.6.1.34) (V-ATPASE 13 KD SUBUNIT) (VACUOLAR H(-)-ATPASE SUBUNIT G).	swissprot P78713	ND
3934	488.3	UBIQUINOL- CYTOCHROME C REDUCTASE COMPLEX SUBUNIT.	sptrembl O74533	ND
3935	488.1	ACTIN-RELATED PROTEIN.	sptrembl O94805	Cell division and chromosome partitioning
3936	487.5	VACUOLAR ATP SYNTHASE SUBUNIT G (EC 3.6.1.34) (V-ATPASE 13 KD SUBUNIT) (VACUOLAR H(+)-ATPASE SUBUNIT G).	swissprot P78713	ND
3937	480.0	HYPOTHETICAL 11.8 KD PROTEIN C1B3.02C IN CHROMOSOME I.	swissprot O13868	ND
3938	479.8	CYANATE LYASE (EC	swissnew Q59948	Inorganic ion

		4.3.99.1) (CYANATE HYDROLASE) (CYANASE).		transport and metabolism
3939	479.0	40S RIBOSOMAL PROTEIN S21 (S26) (YS25).	swissprot P05760	ND
3940	475.9	HYPOTHETICAL 11.5 KD PROTEIN IN HTB2-NTH2 INTERGENIC REGION.	swissprot P35195	ND
3941	473.8	HYPOTHETICAL 23.4 KD PROTEIN.	sptrembl Q03201	Translation, ribosomal structure and biogenesis
3942	466.6	ACTIN, MUSCLE (LPM) (FRAGMENT).	swissprot Q25381	Cell division and chromosome partitioning
3943	465.8	N. crassa mtr gene product.	geneseqp R79909	ND
3944	462.4	PUTATIVE TRANSCRIPTIONAL REGULATOR.	sptrembl O13337	ND
3945	460.7	A. oryzae DEBY1058 locus protein sequence.	geneseqp Y39874	ND
3946	460.3	PROBABLE ADENOSINE DEAMINASE (EC 3.5.4.4) (ADENOSINE AMINOHYDROLASE).	swissprot P53909	Nucleotide transport
3947	459.8	RIBOSOMAL PROTEIN S28.	tremblnew CAB56815	Translation, ribosomal structure and biogenesis
3948	459.5	PYRUVATE DEHYDROGENASE E1 COMPONENT BETA SUBUNIT, MITOCHONDRIAL PRECURSOR (EC 1.2.4.1) (PDHE1-B).	swissprot P32473	Energy production and conversion
3949	458.2	HYPOTHETICAL 37.4 KD PROTEIN IN SEC27-RPL1B INTERGENIC REGION.	swissprot P53123	Cell division and chromosome partitioning
3950	457.8	LIPASE 4 PRECURSOR (EC 3.1.1.3).	swissprot P32948	ND
3951	454.0	SEC65 PROTEIN.	tremblnew CAB55335	Cell motility and secretion
3952	453.8	TRP-ASP REPEAT CONTAINING PROTEIN.	sptrembl O74855	ND
3953	451.6	PUTATIVE GOLGI URIDINE DIPHOSPHATE-N- ACETYLGLUCOSAMINE TRANSPORTER	sptrembl O74750	ND
3954	449.2	PROBABLE INOSINE-5'- MONOPHOSPHATE DEHYDROGENASE (EC 1.1.1.205) (IMP DEHYDROGENASE) (IMPDH) (IMPD).	swissprot O00086	Nucleotide transport
3955	448.6	HYDROLASE 108 aa	pdb 1KUM	ND
3956	448.2	CALMODULIN.	swissprot Q02052	ND

3957	447.3	CYTOCHROME C OXIDASE POLYPEPTIDE VIb (EC 1.9.3.1) (AED).	swissprot Q01519	ND
3958	444.9	KIAA0363 (FRAGMENT).	sptrembl O15069	ND
3959	442.8	HEAT SHOCK PROTEIN 60 PRECURSOR.	tremblnew AAB46362	ND
3960	438.9	RIBOSOMAL PROTEIN S31 HOMOLOG.	sptrembl O74172	ND
3961	436.1	RIBOSOMAL PROTEIN L14.	sptrembl O94238	Translation, ribosomal structure and biogenesis
3962	430.8	ELONGATION FACTOR 1-BETA (EF-1-BETA).	swissprot P32471	Translation, ribosomal structure and biogenesis
3963	428.5	40S RIBOSOMAL PROTEIN S29-B (S36) (YS29).	swissprot P41058	Translation, ribosomal structure and biogenesis
3964	427.7	UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX UBIQUINONE-BINDING PROTEIN QP-C (EC 1.10.2.2) (UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX 11 KD PROTEIN) (COMPLEX III SUBUNIT VIII).	swissprot P48503	ND
3965	424.7	60S RIBOSOMAL PROTEIN L36-B (L39B) (YL39).	swissprot O14455	ND
3966	422.2	NADH-UBIQUINONE OXIDOREDUCTASE 9.5 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-9.5KD) (CI-9.5) (UBIQUINONE-BINDING PROTEIN).	swissprot P42117	ND
3967	420.2	40S RIBOSOMAL PROTEIN S29-B (S36) (YS29).	swissprot P41058	Translation, ribosomal structure and biogenesis
3968	417.1	Ubiquitin-like domain of the yeast protein SMT3.	geneseq W87987	ND
3969	416.8	40S RIBOSOMAL PROTEIN S30.	swissprot Q12087	ND
3970	416.1	60S RIBOSOMAL PROTEIN L39 (YL36).	swissprot P05767	ND
3971	401.3	ACETOLACTATE SYNTHASE SMALL SUBUNIT PRECURSOR (EC 4.1.3.18) (AHAS) (ACETOHYDROXY-ACID SYNTHASE SMALL SUBUNIT) (ALS).	swissnew P25605	Amino acid transport and metabolism
3972	399.7	PUTATIVE PROTEIN TRANSPORT PROTEIN	swissprot Q09827	ND

		SEC61 GAMMA SUBUNIT.		
3973	398.0	Streptomyces clavuligerus protein sequence of orfdwn1.	geneseqp W69712	ND
3974	396.5	60S RIBOSOMAL PROTEIN L33-A (L37A) (YL37) (RP47).	swissprot P05744	ND
3975	394.8	MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR.	sptrembl Q9Y7R8	ND
3976	387.9	PUTATIVE GOLGI URIDINE DIPHOSPHATE-N-ACETYLGLUCOSAMINE TRANSPORTER.	sptrembl O74750	ND
3977	387.0	HEAT SHOCK PROTEIN HSP1 (65 KD IGE-BINDING PROTEIN) (FRAGMENT).	swissprot P40292	ND
3978	383.8	ELONGATION FACTOR 1- GAMMA 2 (EF-1-GAMMA 2).	swissprot P36008	ND
3979	377.0	TYROSYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.1) (TYROSYL--TRNA LIGASE) (TYRRS).	swissprot P36421	Translation, ribosomal structure and biogenesis
3980	371.9	SERINE PALMITOYLTRANSFERASE 2 (EC 2.3.1.50) (LONG CHAIN BASE BIOSYNTHESIS PROTEIN 2) (SPT 2).	swissprot Q09925	ND
3981	371.6	CCDB.	tremblnew BAA84907	ND
3982	370.7	PUTATIVE ATP SYNTHASE F CHAIN, MITOCHONDRIAL PRECURSOR.	sptrembl O94377	ND
3983	369.8	60S RIBOSOMAL PROTEIN L6, MITOCHONDRIAL PRECURSOR (YML6).	swissprot P32904	ND
3984	367.9	H. pylori GHPO 1315 protein.	geneseqp W98517	ND
3985	364.8	S. pneumoniae protein SEQ ID NO:465.	geneseqp Y11355	Translation, ribosomal structure and biogenesis
3986	364.3	60S RIBOSOMAL PROTEIN L29 (YL43).	swissprot P05747	ND
3987	353.3	SPORE-WALL FUNGAL HYDROPHOBIN DEWA PRECURSOR.	swissprot P52750	ND
3988	350.3	PUTATIVE PROGESTERONE-BINDING PROTEIN HOMOLOG.	sptrembl Q9XFM6	ND
3989	345.9	ATP SYNTHASE DELTA CHAIN FAMILY, OLIGOMYCIN SENSITIVITY CONFERRING PROTEIN.	sptrembl O74479	ND
3990	343.1	CGI-111 PROTEIN.	sptrembl	ND

			Q9Y3B5	
3991	341.4	TRANSLATIONALLY CONTROLLED TUMOR PROTEIN HOMOLOG (TCTP).	swissprot P35691	ND
3992	341.2	PUTATIVE ADENINE PHOSPHORIBOSYLTRANSFERASE.	sptrembl O42842	ND
3993	340.6	URACIL PHOSPHORIBOSYLTRANSFERASE.	sptrembl P93394	ND
3994	337.0	HYDROLASE 108 aa	pdb 1KUL	ND
3995	335.6	HYDROLASE 476 aa	pdb 7TAA	ND
3996	329.0	NADH-UBIQUINONE OXIDOREDUCTASE 29.9 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-29.9KD) (CI-29.9KD).	swissprot P24919	ND
3997	327.7	AT2G20490 PROTEIN.	tremblnew AAD25649	ND
3998	317.8	NHP2/RS6 FAMILY PROTEIN YEL026W.	swissprot P39990	ND
3999	317.5	Aspergillus niger aspartic protease PEPE.	geneseqp R75299	ND
4000	315.1	HYPOTHETICAL 24.1 KD PROTEIN IN PDR11-FAA3 INTERGENIC REGION.	swissprot P40553	ND
4001	314.9	NAD(+)-SPECIFIC GLUTAMATE DEHYDROGENASE.	sptrembl Q02222	ND
4002	311.1	40S RIBOSOMAL PROTEIN S13.	swissprot P28189	ND
4003	310.7	ATP CITRATE LYASE.	sptrembl O93988	ND
4004	310.5	CELL CYCLE PROTEIN KINASE HSK1.	sptrembl O94678	ND
4005	308.3	REPRESSOR PROTEIN.	sptrembl Q00784	ND
4006	308.3	CYTOCHROME C OXIDASE POLYPEPTIDE VIA PRECURSOR (EC 1.9.3.1).	swissprot P32799	ND
4007	307.0	Human epidermoid carcinoma cell line KB clone HP10301 protein.	geneseqp W64553	ND
4008	304.5	HISTONE H3.	swissprot P23753	ND
4009	299.8	Sulfolobus solfataricus esterase P1-8LC.	geneseqp W23077	ND
4010	299.5	DPM2-LIKE PROTEIN.	tremblnew CAB57919	ND
4011	297.1	HYPOTHETICAL 40.5 KD PROTEIN IN UBP15-GAS1 INTERGENIC REGION PRECURSOR	swissprot Q04951	ND
4012	294.1	VIPI PROTEIN (P53 ANTIGEN HOMOLOG).	sptrembl P87216	ND
4013	293.7	PUTATIVE RNA-BINDING PROTEIN 3 (RNPL).	swissprot P98179	ND

4014	293.6	CYTOCHROME C OXIDASE COPPER CHAPERONE.	swissprot Q12287	ND
4015	291.2	CYSTEINE-RICH PROTEIN (FRAGMENT).	sptrembl Q16861	ND
4016	290.6	C34B2.10 PROTEIN.	sptrembl O44953	ND
4017	290.6	CLONING VECTOR PZERO- 2T.	sptrembl O53022	ND
4018	290.3	40S RIBOSOMAL PROTEIN S19 (S16).	swissprot P27073	ND
4019	288.9	13KDA DIFFERENTIATION- ASSOCIATED PROTEIN.	tremblnew AAF17196	ND
4020	280.8	HYPOTHETICAL 10.1 KD PROTEIN.	sptrembl O74707	ND
4021	278.1	UV-DAMAGED DNA- BINDING PROTEIN-1 LIKE	sptrembl O49552	ND
4022	275.9	CHOLINE TRANSPORT PROTEIN.	swissprot P19807	ND
4023	274.0	QUEUINE TRNA- RIBOSYLTRANSFERASE.	sptrembl O94460	ND
4024	272.4	NADH-UBIQUINONE OXIDOREDUCTASE 13 KD- A SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-13KD-A) (CI- 13KD-A).	swissprot P23934	ND
4025	268.2	INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y786	ND
4026	267.1	PROBABLE EUKARYOTIC TRANSLATION INITIATION FACTOR 5 (EIF-5).	swissprot Q09689	ND
4027	267.0	HYPOTHETICAL 18.5 KD PROTEIN IN NDC1-TSA1 INTERGENIC REGION.	swissprot Q03713	ND
4028	261.4	TRANSCRIPTION INITIATION FACTOR TFIID (TATA-BOX FACTOR) (TATA SEQUENCE- BINDING PROTEIN) (TBP).	swissprot Q12731	ND
4029	257.1	GLYCERALDEHYDE 3- PHOSPHATE DEHYDROGENASE (EC 1.2.1.12) (GAPDH).	swissprot Q12552	ND
4030	255.6	VIPI PROTEIN (P53 ANTIGEN HOMOLOG).	sptrembl P87216	ND
4031	255.2	HISTONE H2B.	sptrembl Q12606	ND
4032	251.3	CYTOCHROME P450 97B2 (EC 1.14.-.-).	swissprot O48921	ND
4033	251.0	RIBOSOMAL PROTEIN S5 (FRAGMENT).	tremblnew BAA25815	ND
4034	249.6	ISOVALERYL DEHYDROGENASE.	tremblnew AAF20182	ND
4035	245.2	URACIL-DNA GLYCOSYLASE.	tremblnew AAD51974	ND
4036	244.8	ISOCITRATE DEHYDROGENASE [NADP]. MITOCHONDRIAL	swissprot P79089	ND

		PRECURSOR (EC 1.1.1.42) (OXALOSUCCINATE DECARBOXYLASE) (IDH) (NADP+-SPECIFIC ICDH) (IDP).		
4037	243.2	SPINDLE ASSEMBLY CHECKPOINT PROTEIN SLDA.	sptrembl O59901	ND
4038	243.0	FISSION YEAST (FRAGMENT).	sptrembl P78767	ND
4039	242.1	HYPOTHETICAL 29.3 KD PROTEIN (ORF92).	swissprot O10341	ND
4040	241.8	HEMOLYSIN.	sptrembl Q00050	ND
4041	241.5	PUTATIVE PROTEIN TRANSPORT PROTEIN SEC61 GAMMA SUBUNIT.	swissprot Q09827	ND
4042	237.4	ASCORBATE PEROXIDASE.	sptrembl Q39780	ND
4043	235.2	R07B7.5 PROTEIN.	sptrembl Q21795	ND
4044	233.2	MITOCHONDRIAL THIOREDOXIN PRECURSOR (MT-TRX).	swissprot Q95108	ND
4045	232.3	C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC (C1-THF SYNTHASE) [INCLUDES: METHYLENETETRAHYDRO FOLATE DEHYDROGENASE (EC 1.5.1.5); METHENYL TETRAHYDROFOLATE CYCLOHYDROLASE (EC 3.5.4.9); FORMYL TETRAHYDROFOLATE SYNTHETASE (EC 6.3.4.3)].	swissprot P07245	ND
4046	232.0	GLUTATHIONE PEROXIDASE (EC 1.11.1.9).	swissnew O59858	ND
4047	228.2	SIMILAR TO SDH4P.	sptrembl Q06236	ND
4048	226.2	CHROMOSOME IV READING FRAME ORF YDL193W.	sptrembl Q12063	ND
4049	225.8	HYPOTHETICAL 8.6 KD PROTEIN.	sptrembl Q03482	ND
4050	225.7	ATPASE INHIBITOR, MITOCHONDRIAL.	swissprot P09940	ND
4051	223.9	DPM2 mannosyl transferase.	geneseqp R47201	ND
4052	223.7	POSSIBLE COPPER TRANSPORT PROTEIN CTR2 (COPPER TRANSPORTER 2).	swissprot P38865	ND
4053	223.6	ORF2 of Enod2b genomic clone.	geneseqp R04119	ND
4054	222.4	SALIVARY PROLINE-RICH PROTEIN PO (ALLELE K) [CONTAINS: PEPTIDE P-D] (FRAGMENT).	swissprot P10162	ND
4055	221.7	DNA REPAIR PROTEIN	swissprot P28519	ND

		RAD14.		
4056	221.5	RIBOSOMAL PROTEIN L41.	tremblnew CAB52162	ND
4057	217.8	NIFU-LIKE PROTEIN.	sptrembl O49627	ND
4058	217.1	PUTATIVE TRANSCRIPTIONAL REGULATOR.	sptrembl Q9X7Q2	ND
4059	216.4	ATP SYNTHASE DELTA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34) (FRAGMENT).	swissnew P56525	ND
4060	214.0	CELL WALL-PLASMA MEMBRANE LINKER PROTEIN HOMOLOG.	tremblnew AAD11796	ND
4061	212.3	PROHIBITIN.	sptrembl O04331	ND
4062	210.7	RIBOSOMAL PROTEIN L33-LIKE PROTEIN.	sptrembl O75394	ND
4063	209.1	EXTENSIN (FRAGMENT).	sptrembl O49870	ND
4064	207.2	GLUE PROTEIN.	sptrembl Q27423	ND
4065	206.8	RIBOSOMAL PROTEIN S31 HOMOLOG.	sptrembl O74172	ND
4066	204.8	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN).	swissprot P13983	ND
4067	204.5	GLYCOPROTEIN GP150.	tremblnew AAF19315	ND
4068	204.0	NON-FUNCTIONAL FOLATE BINDING PROTEIN	sptrembl O14597	ND
4069	202.5	GLUE PROTEIN.	sptrembl Q27423	ND
4070	202.3	HAVCR-1 PROTEIN PRECURSOR.	sptrembl Q95144	ND
4071	201.6	ACIDIC RIBOSOMAL PROTEIN.	sptrembl O96938	ND
4072	201.6	PHEROPHORIN-S PRECURSOR.	sptrembl P93797	ND
4073	201.3	F23N19.12.	tremblnew AAF19547	ND
4074	200.7	BINDING PROTEIN 113 aa	pdb 1YAT	ND
4075	198.7	HYPOTHETICAL PROTEIN C30B4.01C IN CHROMOSOME II (FRAGMENT).	sptrembl P87179	ND
4076	197.6	F32D1.2 PROTEIN.	sptrembl O16298	ND
4077	194.3	EXTENSIN PRECURSOR	sptrembl Q40768	ND
4078	192.7	DELTA-6 FATTY ACID DESATURASE.	sptrembl Q9Z122	ND
4079	192.6	COSMID C37C3.	sptrembl Q22919	ND
4080	192.5	Sequence A encoded by a portion of SA307.	geneseqp P60623	ND
4081	192.4	ATP SYNTHASE E CHAIN, MITOCHONDRIAL (EC 3.6.1.34).	swissprot P81449	ND
4082	192.3	RIBOSOMAL PROTEIN S31 HOMOLOG.	sptrembl O74172	ND

4083	192.2	SMALL PROLINE-RICH PROTEIN 1A.	tremblnew AAD10126	ND
4084	191.5	ORF YDL133W.	sptrembl Q12516	ND
4085	188.0	ENOLASE (EC 4.2.1.11) (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D- GLYCERATE HYDRO-LYASE).	swissprot Q12560	ND
4086	187.8	60S RIBOSOMAL PROTEIN L44 (L41).	swissprot P31866	ND
4087	185.6	TROPOMYOSIN 1.	swissprot P17536	ND
4088	185.3	HYPOTHETICAL 15.4 KD PROTEIN YPR056C.	sptrembl Q12160	ND
4089	184.3	M. tuberculosis recombinant antigen protein TbH-30.	geneseqp Y39014	ND
4090	183.1	ALPHA-INTERFERON INDUCIBLE PROTEIN (FRAGMENT).	tremblnew AAF23490	ND
4091	182.4	Mutant Aspergillus oryzae DEBY932 rescued locus.	geneseqp W37992	ND
4092	182.2	CYSTEINE-RICH EXTENSIN-LIKE PROTEIN 2.	sptrembl Q08195	ND
4093	181.9	HYPOTHETICAL PROLINE-RICH PROTEIN (FRAGMENT).	swissprot P21260	ND
4094	181.8	UBI1.	tremblnew AAF24230	ND
4095	181.5	Silk like protein (SLP)C-SLPF.	geneseqp R95140	ND
4096	181.5	PUTATIVE MITOSIS AND MAINTENANCE OF PLOIDY PROTEIN.	sptrembl O94360	ND
4097	181.4	NAPRP3.	sptrembl Q41192	ND
4098	181.0	YSY6 PROTEIN.	swissprot P38374	ND
4099	179.6	METALLOTHIONEIN-LIKE PROTEIN CAP5.	swissprot Q00369	ND
4100	178.5	Streptococcus pneumoniae PspA central region.	geneseqp W14574	ND
4101	177.8	GASTRIC MUCIN (FRAGMENT)	sptrembl Q29071	ND
4102	177.6	PUTATIVE GLYCOSYLTRANSFERASE.	tremblnew CAB60235	ND
4103	177.4	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
4104	175.1	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR.	swissprot P04929	ND
4105	175.0	YPT1-RELATED PROTEIN 5.	swissprot P36586	ND
4106	175.0	SULFATED SURFACE GLYCOPROTEIN 185 (SSG 185).	swissprot P21997	ND
4107	174.4	T. gondii immunogenic protein.	geneseqp Y29039	ND
4108	172.3	HYPOTHETICAL 11.3 KD	swissprot P47131	ND

		PROTEIN IN MIR1-STE18 INTERGENIC REGION.		
4109	171.8	F56H9.1 PROTEIN.	sptrembl Q20908	ND
4110	171.4	HEMOLYSIN-LIKE PROTEIN.	sptrembl O32337	ND
4111	171.3	EXTENSIN PRECURSOR (PROLINE-RICH GLYCOPROTEIN).	swissprot P24152	ND
4112	170.4	CELL WALL PROTEIN PRECURSOR.	sptrembl Q39005	ND
4113	170.1	GOLGIN-95.	swissprot Q08379	ND
4114	169.8	BACTENECIN 7 PRECURSOR (BAC7) (PR- 59).	swissprot P19661	ND
4115	169.8	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG (PROTEIN CEX) (FRAGMENT).	swissprot P40603	ND
4116	169.8	HYPOTHETICAL 17.1 KD PROTEIN IN PUR5 3'REGION.	swissprot P38898	ND
4117	169.6	EXTENSIN (PROLINE-RICH GLYCOPROTEIN) (CLONE W6) (FRAGMENT).	sptrembl Q01945	ND
4118	169.5	F23N19.12.	tremblnew AAF19547	ND
4119	169.2	MYOCYTE-SPECIFIC ENHANCER FACTOR 2D.	swissnew Q63943	ND
4120	168.8	FISSION YEAST (FRAGMENT).	sptrembl P78755	ND
4121	168.4	NUCLEAR PROTEIN (FRAGMENT).	sptrembl Q95294	ND
4122	168.3	MYOCYTE-SPECIFIC ENHANCER FACTOR 2D.	swissnew Q63943	ND
4123	167.8	Cyanovirin-N protein sequence.	geneseq Y39909	ND
4124	166.8	DVE PROTEIN.	sptrembl O77289	ND
4125	166.2	KERATIN, ULTRA HIGH- SULFUR MATRIX PROTEIN (UHS KERATIN).	swissprot P26372	ND
4126	165.5	50KD PROLINE RICH PROTEIN.	sptrembl Q9ZBP2	ND
4127	165.1	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
4128	164.8	EARLY NODULIN 20 PRECURSOR (N-20).	swissprot P93329	ND
4129	164.7	60S RIBOSOMAL PROTEIN L23A.	swissprot O22644	ND
4130	163.2	PUTATIVE MEMBRANE PROTEIN.	tremblnew CAB52863	ND
4131	161.6	MITOCHONDRIAL CAPSULE SELENOPROTEIN.	sptrembl O70613	ND
4132	161.4	STRUCTURAL WALL PROTEIN PRECURSOR.	sptrembl Q07373	ND
4133	161.0	POLYSACCHARIDE	pdb 1ACZ	ND

		DEGRADATION 108 aa		
4134	160.0	EXTENSIN-LIKE PROTEIN.	tremblnew CAB40769	ND
4135	160.0	HYPOTHETICAL 14.0 KD PROTEIN.	sptrembl O74383	ND
4136	159.9	C-REL PROTO-ONCOGENE PROTEIN (C-REL PROTEIN).	swissprot P15307	ND
4137	159.5	THROMBOSPONDIN- RELATED ANONYMOUS PROTEIN (FRAGMENT).	sptrembl Q94727	ND
4138	158.7	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
4139	158.5	F18A11.4 PROTEIN.	sptrembl Q9XTB1	ND
4140	158.5	INSERTION ELEMENT ISR1 HYPOTHETICAL 30.8 KD PROTEIN A.	swissprot P17986	ND
4141	158.5	HISTONE H4.	swissprot P09322	ND
4142	158.4	HYPOTHETICAL PROTEIN HI0983.	swissprot P43907	ND
4143	158.1	NADH DEHYDROGENASE SUBUNIT 4.	sptrembl O63595	ND
4144	157.2	TONB2.	tremblnew AAF04082	ND
4145	157.1	O-SIALOGLYCOPROTEIN ENDOPEPTIDASE, PUTATIVE.	tremblnew CAB50493	ND
4146	156.8	BCD (BICOID) GENE INVOLVED IN ANTERIOR POSITIONAL SPECIFICATION DURING EMBRYOGENESIS (BICOID).	sptrembl Q24615	ND
4147	156.4	Immunodominant fragment of flagellar pocket antigen of T. brucei.	geneseqp R85174	ND
4148	155.5	ORF YOR309C.	sptrembl Q12444	ND
4149	155.3	REGULATORY PROTEIN E2.	sptrembl O56955	ND
4150	155.0	BASSOON.	sptrembl O88737	ND
4151	154.8	TUMOR NECROSIS FACTOR RECEPTOR TYPE II (FRAGMENT).	sptrembl Q9WU1.4	ND
4152	154.6	G1 PHASE-SPECIFIC GENE {3' REGION (FRAGMENT).	sptrembl Q16164	ND
4153	154.5	PROTEASE B INHIBITORS 2 AND 1 (PROTEINASE INHIBITOR I(B)2).	swissprot P01095	ND
4154	154.4	PROLINE-RICH CELL WALL PROTEIN.	sptrembl Q39763	ND
4155	153.9	GASTRIC MUCIN (FRAGMENT).	sptrembl Q29671	ND
4156	153.5	CBD-cellulase from Melanocarpus albomyces.	geneseqp W16545	ND
4157	153.4	TAT PROTEIN.	tremblnew CAB53046	ND
4158	152.5	ERYTHROCYTE	sptrembl O61124	ND

		MEMBRANE PROTEIN 1 (FRAGMENT).		
4159	152.5	137AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YDR3	ND
4160	152.3	IG ALPHA CHAIN C REGION.	swissprot P01878	ND
4161	152.1	Mycobacterium species protein sequence 50B.	geneseqp Y04998	ND
4162	151.9	G-protein coupled human thromboxane A2 receptor.	geneseqp W02688	ND
4163	151.8	HYPOTHETICAL 82.1 KD PROTEIN.	sptrembl O64621	ND
4164	151.7	HYPOTHETICAL 13.1 KD PROTEIN.	sptrembl Q9XFU9	ND
4165	150.9	40S RIBOSOMAL PROTEIN S15A (S24).	swissprot P50891	ND
4166	150.8	L1332.3A PROTEIN.	tremblnew CAB63874	ND
4167	150.5	DYNAMIN IIIIBB ISOFORM.	tremblnew AAF07848	ND
4168	149.1	OUTER MEMBRANE PROTEIN.	tremblnew AAF08549	ND
4169	149.0	ZEIN-BETA PRECURSOR (ZEIN 2) (16 KD) (ZEIN ZC1).	swissprot P08031	ND
4170	149.0	Thermus thermophilus heat resistance MutM protein.	geneseqp Y29572	ND
4171	149.0	HYPOTHETICAL 24.1 KD PROTEIN IN LEF4-P33 INTERGENIC REGION.	swissprot P41479	ND
4172	148.9	DNA-BINDING PROTEIN K10.	swissnew P13468	ND
4173	148.5	METALLOTHIONEIN (FRAGMENT).	sptrembl O76957	ND
4174	148.2	HYPOTHETICAL 54.7 KD PROTEIN IN COII INTRON 2 REGION.	sptrembl Q02696	ND
4175	148.1	ASKI TRANSCRIPTION FACTOR (FRAGMENT).	sptrembl Q90230	ND
4176	148.1	STEROID HORMONE RECEPTOR FAMILY MEMBER NHR-22.	swissprot Q09587	ND
4177	147.7	HISTIDINE-RICH PROTEIN (FRAGMENT).	sptrembl Q26056	ND
4178	147.7	CHROMOSOME IV READING FRAME ORF YDL196W.	sptrembl Q12187	ND
4179	147.6	T06A4.2 PROTEIN.	tremblnew AAC67472	ND
4180	147.6	CORTICOLIBERIN PRECURSOR (CORTICOTROPIN- RELEASING FACTOR) (CRF).	swissprot P06296	ND
4181	147.5	HYPOTHETICAL 141.5 KD PROTEIN IN YPT53-RHO2 INTERGENIC REGION.	swissprot P53935	ND

4182	147.4	LOW MOLECULAR WEIGHT GLUTENIN (FRAGMENT).	sptrembl Q41551	ND
4183	147.4	INTEGRIN BETA 5 SUBUNIT (FRAGMENT).	sptrembl Q64657	ND
4184	147.0	ANTIGEN RECEPTOR (FRAGMENT).	sptrembl Q9YHR0	ND
4185	146.8	P.furiosus pyroglutamyl peptidase fragment.	geneseqp R89125	ND
4186	146.8	SFT2 PROTEIN.	swissprot P38166	ND
4187	146.7	TDP-6-DEOXY-4-KETOHEXOSE 2,3-DEHYDRATASE.	tremblnew AAF18990	ND
4188	146.6	SALIVARY PROLINE-RICH PROTEIN RP15 PRECURSOR.	sptrembl Q04154	ND
4189	146.1	SPLICING FACTOR U2AF 38 KD SUBUNIT (U2 AUXILIARY FACTOR 38 KD SUBUNIT) (U2 SNRNP AUXILIARY FACTOR SMALL SUBUNIT).	swissprot Q94535	ND
4190	146.0	PAX TRANSCRIPTION ACTIVATION DOMAIN INTERACTING PROTEIN PTIP.	sptrembl Q9Z0W6	ND
4191	145.5	COLLAGEN ALPHA 5(IV) CHAIN (FRAGMENT).	swissprot Q28247	ND
4192	145.0	40S RIBOSOMAL PROTEIN S8 (FRAGMENT).	sptrembl Q93915	ND
4193	145.0	CDC37 PROTEIN.	sptrembl Q94740	ND
4194	144.8	HYPOTHETICAL 36.0 KD PROTEIN.	tremblnew CAB62810	ND
4195	144.6	CELL DIVISION PROTEIN FTSK.	swissprot P46889	ND
4196	144.0	HYPOTHETICAL 57.5 KD PROTEIN IN VMA7-RPS25A INTERGENIC REGION.	swissprot P53214	ND
4197	143.9	ZK899.1 PROTEIN.	sptrembl Q23659	ND
4198	143.8	GTP CYCLOHYDROLASE II (EC 3.5.4.25).	swissnew P44571	ND
4199	143.7	R09E10.2 PROTEIN (EC 3.1.3.48).	sptrembl Q21877	ND
4200	143.6	HYPOTHETICAL 33.1 KD PROTEIN.	tremblnew AAF10810	ND
4201	143.4	W03G1.5 PROTEIN.	tremblnew AAD14753	ND
4202	143.2	Human thoracic aorta G-protein coupled receptor.	geneseqp W02727	ND
4203	142.9	T09E11.2 PROTEIN.	sptrembl Q02305	ND
4204	142.9	D2062.3 PROTEIN.	sptrembl Q16599	ND
4205	142.4	ATTACHMENT GLYCOPROTEIN (FRAGMENT).	sptrembl Q9YNF2	ND
4206	142.0	COSMID C03G6.	sptrembl Q01454	ND
4207	142.0	HYPOTHETICAL 48.4 KD	swissnew Q10849	ND

		PROTEIN RV2008C.		
4208	142.0	HYPOTHETICAL 31.4 KD PROTEIN.	sptrembl O51346	ND
4209	141.8	DNA-BINDING RESPONSE REGULATOR.	tremblnew AAF11967	ND
4210	141.8	ZK1025.5 PROTEIN.	tremblnew CAA18363	ND
4211	141.7	686AA LONG HYPOTHETICAL DNA TOPOISOMERASE I.	sptrembl O58356	ND
4212	141.7	HYPOTHETICAL NUCLEAR PROTEIN (FRAGMENT).	tremblnew BAA87224	ND
4213	141.6	MYELOBLAST KIAA0244 (FRAGMENT).	sptrembl Q92576	ND
4214	141.5	220AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YFG0	ND
4215	141.4	HYPOTHETICAL 34.8 KD PROTEIN YDL037C.	sptrembl Q12140	ND
4216	141.3	HUNCHBACK PROTEIN (HB) (FRAGMENTS).	sptrembl O46254	ND
4217	141.2	F57B1.7 PROTEIN.	sptrembl Q20920	ND
4218	141.1	DOLICHYL-DIPHOSPHOOLIGOSACCHARIDE--PROTEIN GLYCOSYLTRANSFERASE ALPHA SUBUNIT PRECURSOR (EC 2.4.1.119) (OLIGOSACCHARYL TRANSFERASE ALPHA SUBUNIT) (OLIGOSACCHARYL TRANSFERASE 64 KD SUBUNIT).	swissprot P41543	ND
4219	141.0	H. influenzae Hap protein autotransporter membrane integration region.	geneseq W27705	ND
4220	140.9	BETA-GLUCOSYL-HMC-ALPHA-GLUCOSYL-TRANSFERASE (EC 2.4.1.-).	swissprot Q06717	ND
4221	140.9	T-lymphocyte stimulatory protein.	geneseq R84086	ND
4222	140.9	DJ465N24.2.1 (PUTATIVE NOVEL PROTEIN) (ISOFORM 1).	sptrembl O95927	ND
4223	140.8	120AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YF04	ND
4224	140.6	PROLIN RICH PROTEIN	sptrembl Q41848	ND
4225	140.2	ORF 4.	sptrembl O32454	ND
4226	140.1	Y116A8C.17 PROTEIN.	tremblnew CAB55123	ND
4227	140.0	LOX18 HOMEODOMAIN PROTEIN (FRAGMENT).	tremblnew AAD54933	ND
4228	139.9	ORF6-14K.	sptrembl Q65006	ND
4229	139.8	Mycobacterium species protein sequence 47B.	geneseq Y04983	ND
4230	139.8	GUANYL-SPECIFIC	tremblnew	ND

		RIBONUCLEASE SA.	AAF10029	
4231	139.6	T-lymphocyte stimulatory protein.	geneseqp R84086	ND
4232	139.5	CODED FOR BY C. ELEGANS CDNA YK79A3.5.	sptrembl O02076	ND
4233	139.4	152AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YE05	ND
4234	139.4	AMINO-ACID ACETYLTRANSFERASE (EC 2.3.1.1) (N-ACETYLGLUTAMATE SYNTHASE) (AGS).	swissprot P32042	ND
4235	139.2	64AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YAL3	ND
4236	139.1	Filistata peptide 10, a Ca-blocking polypeptide from spider venom.	geneseqp R40035	ND
4237	139.1	AUXIN INDUCED PROLINE RICH PROTEIN.	sptrembl O24072	ND
4238	138.6	OVARIAN TUMOR LOCUS PROTEIN.	swissprot P10383	ND
4239	138.6	5T4 ONCOFETAL ANTIGEN HOMOLOG.	tremblnew AAF21770	ND
4240	138.5	(MSA-2) (FRAGMENT).	sptrembl Q25947	ND
4241	138.5	SMALL NUCLEAR RIBONUCLEOPROTEIN B.	tremblnew AAD54488	ND
4242	138.3	TRANSPOSABLE ELEMENT MUI SEQUENCE.	sptrembl Q41863	ND
4243	138.3	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN (FRAGMENT).	sptrembl Q40549	ND
4244	138.3	Extracellular region of metastasis-specific CD44 surface protein	geneseqp R14769	ND
4245	138.1	PHYTOENE SYNTHASE.	sptrembl O04007	ND
4246	137.8	B0238.12 PROTEIN.	sptrembl O16488	ND
4247	137.7	NADH DEHYDROGENASE, SUBUNIT 9 (EC 1.6.5.3).	sptrembl O21271	ND
4248	137.7	F10G19.2 PROTEIN.	sptrembl O23120	ND
4249	137.2	PAIRED-BOX TRANSCRIPTION FACTOR PROTEIN (FRAGMENT).	sptrembl O13081	ND
4250	137.2	Human adult retina secreted protein bk112_15.	geneseqp W95345	ND

Table 3. *Aspergillus oryzae* ESTs

Sequence Listing	zscore	Annotation	Database	Functional Category
4376	999.7	PUTATIVE GLUCOSYLTRANSFERASE C17C9.07 (EC 2.4.1.-).	swissprot Q10479	ND
4377	997.5	HEAT SHOCK PROTEIN HSP88.	sptrembl Q74225	Posttranslational modification, protein turnover, chaperones

4378	996.4	40S RIBOSOMAL PROTEIN S8.	swissprot O14049	Translation, ribosomal structure and biogenesis
4379	995.7	SERINE/THREONINE-PROTEIN KINASE IRE1 PRECURSOR (EC 2.7.1.-).	swissprot P32361	Signal transduction mechanisms
4380	993.4	DIMETHYL-ALLYL-TRYPTOPHAN-SYNTHASE.	sptrembl O94204	ND
4381	992.6	PROTEIN TRANSPORT PROTEIN SEC61 ALPHA SUBUNIT.	swissprot P78979	Cell motility and secretion
4382	992.1	PROTEASOME COMPONENT PRE6 (EC 3.4.99.46) (MACROPAIN SUBUNIT PRE6) (PROTEINASE YSCF SUBUNIT PRE6) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT PRE6).	swissprot P40303	Posttranslational modification, protein turnover, chaperones
4383	990.1	MITOCHONDRIAL PHOSPHATE CARRIER PROTEIN (PHOSPHATE TRANSPORT PROTEIN) (PTP) (MITOCHONDRIAL IMPORT RECEPTOR) (P32).	swissprot P23641	ND
4384	989.3	SLA2P.	sptrembl O94097	ND
4385	988.3	ADP-RIBOSYLATION FACTOR-LIKE PROTEIN 1.	swissprot P38116	ND
4386	987.3	PUTATIVE FIZZY-RELATED PROTEIN.	sptrembl O82740	ND
4387	985.5	2-OXOGLUTARATE DEHYDROGENASE E1 COMPONENT, MITOCHONDRIAL PRECURSOR (EC 1.2.4.2) (ALPHA-KETOGLUTARATE DEHYDROGENASE).	swissprot P20967	Energy production and conversion
4388	985.2	VACUOLAR ATP SYNTHASE 16 KD PROTEOLIPID SUBUNIT (EC 3.6.1.34).	swissprot P31413	Energy production and conversion
4389	985.1	WD REPEAT PROTEIN, HUMAN U5 SNRNP-SPECIFIC-LIKE.	sptrembl O94620	ND
4390	984.0	HISTONE H2B	swissprot P23754	ND
4391	983.8	DOLICHYL-PHOSPHATE-MANNOSE--PROTEIN MANNOSYLTRANSFERASE 4 (EC 2.4.1.109).	swissprot P46971	Posttranslational modification, protein turnover, chaperones
4392	983.3	PUTATIVE CA-CALMODULIN-DEPENDENT SERINE-THREONINE-PROTEIN KINASE.	sptrembl O94547	Signal transduction mechanisms
4393	983.0	HYPOTHETICAL 102.5 KD PROTEIN IN KRE1-HXT14	swissprot P42839	Inorganic ion transport and

		INTERGENIC REGION.		metabolism
4394	981.2	RHO1 PROTEIN.	swissprot Q09914	ND
4395	980.2	Aspergillus nidulans essential protein AN80.	geneseqp Y06416	ND
4396	978.2	NADPH CYTOCHROME P450 OXIDOREDUCTASE.	sptrembl Q00141	Inorganic ion transport and metabolism
4397	977.8	RASP F 4 (FRAGMENT).	sptrembl O60024	ND
4398	977.4	SYMBIOSIS-RELATED PROTEIN.	swissprot P87068	ND
4399	976.6	40S RIBOSOMAL PROTEIN S19 (S16).	swissprot P27073	Translation, ribosomal structure and biogenesis
4400	976.1	GABA-SPECIFIC PERMEASE (GABA-SPECIFIC TRANSPORT PROTEIN).	swissprot P32837	Amino acid transport and metabolism
4401	972.7	A. oryzae P4-8.1 locus protein sequence.	geneseqp Y39875	Posttranslational modification, protein turnover, chaperones
4402	972.7	ATP CITRATE LYASE.	sptrembl O93988	ND
4403	970.8	Protein kinase (Hhp1+).	geneseqp R56520	Signal transduction mechanisms
4404	967.7	NUCLEOLAR PROTEIN INVOLVED IN PRE-RRNA PROCESSING.	sptrembl O94514	Translation, ribosomal structure and biogenesis
4405	964.2	3-KETOACYL-COA THIOLASE, PEROXISOMAL PRECURSOR (EC 2.3.1.16) (BETA- KETOTHIOLASE) (ACETYL-COA ACYLTRANSFERASE) (PEROXISOMAL 3-OXOACYL- COA THIOLASE).	swissprot Q05493	Lipid metabolism
4406	963.8	40S RIBOSOMAL PROTEIN S14 (CRP2).	swissprot P19115	Translation, ribosomal structure and biogenesis
4407	963.8	DNA POLYMERASE ALPHA CATALYTIC SUBUNIT (EC 2.7.7.7) (DNA POLYMERASE I).	swissprot P28040	DNA replication, recombination and repair
4408	963.4	DOLICHOL-PHOSPHATE MANNOSYLTRANSFERASE (EC 2.4.1.83) (DOLICHOL-PHOSPHATE MANNOSE SYNTHASE) (DOLICHYL-PHOSPHATE BETA-D-MANNOSYLTRANSFERASE).	sptrembl O14466	Cell envelope biogenesis, outer membrane
4409	962.9	PROBABLE MANNOSYL-OLIGOSACCHARIDE	swissprot O14255	ND

		GLUCOSIDASE (EC 3.2.1.106) (PROCESSING A-GLUCOSIDASE I).		
4410	962.1	HYPOTHETICAL 41.0 KD PROTEIN IN YIP1-CBP4 INTERGENIC REGION.	swissprot P53295	ND
4411	961.1	PUTATIVE ASPARTATE AMINOTRANSFERASE, CYTOPLASMIC (EC 2.6.1.1) (TRANSAMINASE A).	sptrembl O42652	Amino acid transport and metabolism
4412	961.0	40S RIBOSOMAL PROTEIN S2.	swissprot O74892	Translation, ribosomal structure and biogenesis
4413	960.7	40S RIBOSOMAL PROTEIN S17 (CRP3).	swissprot P27770	Translation, ribosomal structure and biogenesis
4414	960.5	CHROMOSOME XV READING FRAME ORF YOR197W.	sptrembl Q08601	ND
4415	960.4	2-ISOPROPYLMALATE SYNTHASE.	sptrembl O59736	Amino acid transport and metabolism
4416	960.2	TRYPTOPHANYL-TRNA SYNTHETASE. CYTOPLASMIC (EC 6.1.1.2) (TRYPTOPHAN-- TRNA LIGASE) (TRPRS).	swissprot Q12109	Translation, ribosomal structure and biogenesis
4417	960.0	PHOSPHORYLASE 263 aa	pdb 3PNP	Nucleotide transport
4418	959.5	ISOCITRATE DEHYDROGENASE [NADP], MITOCHONDRIAL PRECURSOR (EC 1.1.1.42) (OXALOSUCCINATE DECARBOXYLASE) (IDH) (NADP+-SPECIFIC ICDH) (IDP).	swissprot P79089	Energy production and conversion
4419	958.6	RAN/SPI1 BINDING PROTEIN.	sptrembl Q09717	ND
4420	958.2	SYNAPTOBREVIN.	sptrembl O13312	ND
4421	957.3	MULTICATALYTIC PROTEINASE 222 aa, chain M+1	pdb 1RYP	Posttranslational modification, protein turnover, chaperones
4422	956.8	HYPOTHETICAL 53.0 KD PROTEIN C22E12.17C IN CHROMOSOME I.	swissprot Q10367	ND
4423	956.1	PUTATIVE ABC TRANSPORTER.	sptrembl Q9Y840	ND
4424	953.0	TRANSLATION RELEASE FACTOR ERF3.	sptrembl O42787	Amino acid transport and metabolism
4425	951.3	CELL DIVISION CONTROL PROTEIN 48.	swissprot P25694	Posttranslational modification, protein turnover,

				chaperones
4426	950.0	HYPOTHETICAL 73.1 KD PROTEIN (FRAGMENT).	sptrembl O14164	ND
4427	948.6	PYRUVATE DEHYDROGENASE E1 COMPONENT ALPHA SUBUNIT, MITOCHONDRIAL PRECURSOR (EC 1.2.4.1) (PDHE1-A).	swissprot Q10489	Energy production and conversion
4428	948.1	DOLICHYL-PHOSPHATE-MANNOSE--PROTEIN MANNOSYLTRANSFERASE 2 (EC 2.4.1.109).	swissprot P31382	Posttranslational modification, protein turnover, chaperones
4429	947.3	PUTATIVE PROHIBITIN ANTIPROLIFERATIVE PROTEIN.	sptrembl O94550	Posttranslational modification, protein turnover, chaperones
4430	947.2	PUTATIVE MITOCHONDRIAL CARRIER YOR222W.	swissnew Q99297	ND
4431	947.0	CYTOCHROME C PEROXIDASE PRECURSOR (EC 1.11.1.5) (CCP).	swissprot P00431	Inorganic ion transport and metabolism
4432	945.8	ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P23704	Energy production and conversion
4433	942.1	TYROSYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.1) (TYROSYL--TRNA LIGASE) (TYRRS).	swissprot P36421	Translation, ribosomal structure and biogenesis
4434	941.2	UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX CORE PROTEIN 2 PRECURSOR (EC 1.10.2.2).	swissprot O60044	ND
4435	937.8	ASPARTATE AMINOTRANSFERASE, MITOCHONDRIAL PRECURSOR (EC 2.6.1.1) (TRANSAMINASE A) (GLUTAMATE OXALOACETATE TRANSAMINASE-2).	swissprot P12344	Amino acid transport and metabolism
4436	936.9	Zea mays eIF-4E protein #4.	geneseqp Y29948	ND
4437	936.5	CELL PATTERN FORMATION-ASSOCIATED PROTEIN.	swissprot P36011	ND
4438	934.7	GLYCOLIPID ANCHORED SURFACE PROTEIN PRECURSOR (GLYCOPROTEIN GP115).	swissprot P22146	ND
4439	934.3	HYPOTHETICAL 79.2 KD PROTEIN.	sptrembl Q04585	Energy production and conversion
4440	934.2	DTDP-GLUCOSE 4-6-	tremblnew	Carbohydrate

		DEHYDRATASES-LIKE PROTEIN.	CAB62035	transport and metabolism
4441	933.8	40S RIBOSOMAL PROTEIN S11 (S18) (YS12) (RP41).	swissprot P26781	Translation, ribosomal structure and biogenesis
4442	933.2	GLYCOGEN SYNTHASE.	sptrembl O93869	Cell envelope biogenesis, outer membrane
4443	933.2	60S RIBOSOMAL PROTEIN L19.	sptrembl O42699	Translation, ribosomal structure and biogenesis
4444	931.5	MEMBRANE TRANSPORTER.	sptrembl O59700	ND
4445	931.0	40S RIBOSOMAL PROTEIN S15 (S12).	swissprot P34737	Translation, ribosomal structure and biogenesis
4446	930.5	HYPOTHETICAL 63.9 KD PROTEIN C22A12.08C IN CHROMOSOME I.	sptrembl O13899	ND
4447	928.0	RIBONUCLEOSIDE-DIPHOSPHATE REDUCTASE SMALL CHAIN 1 (EC 1.17.4.1) (RIBONUCLEOTIDE REDUCTASE).	swissprot P09938	Nucleotide transport
4448	927.0	POLY(A)+ RNA TRANSPORT PROTEIN PTR3P.	sptrembl O94609	Coenzyme metabolism
4449	926.3	MAGO NASHI PROTEIN HOMOLOG.	swissprot O65806	ND
4450	925.4	O1232.	sptrembl Q05663	ND
4451	925.2	HYPOTHETICAL 32.2 KD PROTEIN IN ARE2-SWP73 INTERGENIC REGION.	swissprot P53722	ND
4452	921.7	NUCLEAR PROTEIN.	tremblnew CAB41231	ND
4453	921.0	GLUTAMATE DEHYDROGENASE (EC 1.4.1.4).	tremblnew AAF00006	Amino acid transport and metabolism
4454	920.5	CHROMOSOME XV READING FRAME ORF YOR090C.	sptrembl Q12511	Signal transduction mechanisms
4455	920.3	Cladosporium herbarum allergen Clah53.	geneseqp R71891	Energy production and conversion
4456	919.5	PUTATIVE ACONITASE IN PRP21-UBP12 INTERGENIC REGION (EC 4.2.1.3).	swissprot P39533	Energy production and conversion
4457	918.8	SPLICEOSOME ASSOCIATED PROTEIN 49 (SAP 49) (SF3B53).	swissprot Q15427	ND
4458	918.7	Yeast proteasome YC1 subunit.	geneseqp R22996	Posttranslational modification, protein turnover, chaperones

4460	916.8	HYPOTHETICAL 15.5 KD PROTEIN IN MFAL2-MAD1 INTERGENIC REGION.	swissprot P53152	ND
4461	913.8	FRUCTOSE-1,6-BISPHOSPHATASE (EC 3.1.3.11) (D-FRUCTOSE-1,6-BISPHOSPHATE 1-PHOSPHOHYDROLASE) (FBPASE).	swissprot P09201	Carbohydrate transport and metabolism
4462	911.4	HYPOTHETICAL 46.6 KD PROTEIN IN DAL80-GAP1 INTERGENIC REGION.	swissnew P36132	Posttranslational modification, protein turnover, chaperones
4463	909.6	RAN GTPASE ACTIVATING PROTEIN 1 (RNA1 PROTEIN).	swissprot P41391	ND
4464	909.4	SCO1 PROTEIN PRECURSOR.	swissprot P23833	ND
4465	907.9	PHOSPHOPROTEIN PHOSPHATASE A.	sptrembl Q23922	ND
4466	906.4	RIBOSOMAL PROTEIN SUBUNIT S18.	sptrembl O94754	Translation, ribosomal structure and biogenesis
4467	906.3	O-METHYLTRANSFERASE.	tremblnew BAA86103	ND
4468	906.1	RIBONUCLEASE T2 PRECURSOR (EC 3.1.27.1) (RNASE T2).	swissprot P10281	ND
4469	903.9	NADH-UBIQUINONE OXIDOREDUCTASE 20.8 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3).	swissprot P21976	ND
4470	903.9	PUTATIVE GTP CYCLOHYDROLASE.	tremblnew CAB65619	ND
4471	903.8	PYRUVATE KINASE (EC 2.7.1.40) (PK).	swissprot Q12669	Carbohydrate transport and metabolism
4472	903.7	PROBABLE MITOCHONDRIAL IMPORT INNER MEMBRANE TRANSLOCASE SUBUNIT TIM44 PRECURSOR.	swissprot O60084	ND
4473	901.7	60S RIBOSOMAL PROTEIN L23 (L17).	swissprot P04451	Translation, ribosomal structure and biogenesis
4474	901.6	3-METHYLCROTONYL-COA CARBOXYLASE PRECURSOR (EC 6.4.1.4).	sptrembl Q42523	ND
4475	901.5	HYPOTHETICAL 50.3 KD PROTEIN.	tremblnew CAB52038	ND
4476	900.4	14-3-3.	tremblnew BAA89421	ND
4477	900.0	HOMEODOMAIN DNA-BINDING TRANSCRIPTION FACTOR.	sptrembl O74252	ND

4478	899.9	SERINE/THREONINE PROTEIN PHOSPHATASE PP2A CATALYTIC SUBUNIT (EC 3.1.3.16).	swissprot P48580	Signal transduction mechanisms
4479	899.8	ACTIN INTERACTING PROTEIN 2.	swissprot P46681	Energy production and conversion
4480	899.4	ACTIVATOR OF HSP70 AND HSP90 CHAPERONES.	tremblnew CAB39910	ND
4481	899.2	HYPOTHETICAL 22.1 KD PROTEIN IN CCP1-MET1 INTERGENIC REGION.	swissprot P36149	ND
4482	897.8	INITIATION FACTOR 5A-1 (EIF-5A) (EIF-4D) (HYPUSINE CONTAINING PROTEIN HP1)	swissprot P19211	Translation, ribosomal structure and biogenesis
4483	897.5	HISTONE H3.	swissprot P23753	DNA replication, recombination and repair
4484	894.8	PUTATIVE ATP- DEPENDENT RNA HELICASE C17G6.14C.	sptrembl O13792	DNA replication, recombination and repair
4485	893.9	SIRTUIN TYPE 3.	sptrembl Q9Y6E8	Coenzyme metabolism
4486	892.1	PH RESPONSIVE PROTEIN 1 PRECURSOR (PH- REGULATED PROTEIN 1).	swissprot P43076	ND
4487	890.0	TRANSKETOLASE 2 (EC 2.2.1.1) (TK 2).	swissprot P33315	Carbohydrate transport and metabolism
4488	888.2	CDC37 PROTEIN.	sptrembl O94740	ND
4489	887.1	SQUALENE MONOOXYGENASE (EC 1.14.99.7) (SQUALENE EPOXIDASE) (SE).	swissprot Q92206	Coenzyme metabolism
4490	886.7	T02D1.5 PROTEIN.	sptrembl O45730	Lipid metabolism
4491	885.9	Translational initiation factor 1A (EIF1AX) gene product.	geneseqp W81509	Translation, ribosomal structure and biogenesis
4492	882.7	HYPOTHETICAL 52.9 KD PROTEIN IN SAPI55-YMR31 INTERGENIC REGION.	swissprot P43616	Amino acid transport and metabolism
4493	882.0	FISSION YEAST.	sptrembl P78887	Coenzyme metabolism
4494	880.6	UBIQUITIN	sptrembl O13697	ND
4495	879.0	PROTEIN KINASE DSK1 (EC 2.7.1.-) (DIS1- SUPPRESSING PROTEIN KINASE).	swissprot P36616	Signal transduction mechanisms
4496	878.1	CGI-35 PROTEIN.	sptrembl Q9Y324	ND
4497	877.5	60S RIBOSOMAL PROTEIN L20 (L18A).	swissprot P47913	ND
4498	875.7	PDI RELATED PROTEIN A.	sptrembl O93914	ND
4499	875.0	SUCCINATE SEMIALDEHYDE	swissprot P51649	Energy production and

		DEHYDROGENASE (EC 1.2.1.24) (NAD(+)-DEPENDENT SUCCINIC SEMIALDEHYDE DEHYDROGENASE) (FRAGMENT).		conversion
4500	874.4	Glyceraldehyde-3-phosphate dehydrogenase.	geneseqp R22097	Carbohydrate transport and metabolism
4501	873.6	40S RIBOSOMAL PROTEIN S26E (CRP5) (13.6 KD RIBOSOMAL PROTEIN).	swissprot P21772	ND
4502	871.4	HYPOTHETICAL 41.9 KD PROTEIN IN HAC1-CAK1 INTERGENIC REGION.	swissprot P43567	Amino acid transport and metabolism
4503	870.9	HYPOTHETICAL 33.9 KD PROTEIN.	sptrembl P78995	Amino acid transport and metabolism
4505	868.2	HYPOTHETICAL 22.7 KD PROTEIN.	sptrembl O60073	ND
4506	867.9	PROBABLE 3-HYDROXYBUTYRYL-COA DEHYDROGENASE (EC 1.1.1.157) (BETA-HYDROXYBUTYRYL-COA DEHYDROGENASE) (BHBD).	swissprot P45856	Lipid metabolism
4507	866.9	HYPOTHETICAL 103.2 KD PROTEIN C24B11.10C IN CHROMOSOME I.	swissprot Q09897	ND
4508	865.9	ENDO ALPHA-1,4 POLYGALACTOSAMINIDASE PRECURSOR PRECURSOR.	sptrembl Q52423	ND
4509	865.9	BETA-1,3-GLUCANOSYLTRANSFERASE.	sptrembl Q59909	ND
4510	865.1	60S RIBOSOMAL PROTEIN L27A (L29).	swissprot P78987	Translation, ribosomal structure and biogenesis
4511	864.4	HYPOTHETICAL 98.1 KD PROTEIN.	tremblnew CAB58402	ND
4512	862.7	PORPHOBILINOGEN DEAMINASE.	sptrembl O94048	Coenzyme metabolism
4513	862.4	RIBOSOMAL PROTEIN S16 HOMOLOG (FRAGMENT).	tremblnew BAA33368	Translation, ribosomal structure and biogenesis
4514	862.3	PROTEIN PHOSPHATASE 2C HOMOLOG 2 (EC 3.1.3.16) (PP2C-2).	swissprot Q09172	Signal transduction mechanisms
4516	861.6	HYPOTHETICAL 32.8 KD PROTEIN IN BIO3-HXT17 INTERGENIC REGION	swissprot P53750	ND
4517	861.4	RER1 PROTEIN.	swissnew O15258	ND
4518	861.1	SERYL-TRNA SYNTHETASE.	swissprot P07284	Translation, ribosomal

		CYTOPLASMIC (EC 6.1.1.11) (SERINE--TRNA LIGASE) (SERRS).		structure and biogenesis
4519	859.4	ALANYL-TRNA SYNTHETASE. CYTOPLASMIC (EC 6.1.1.7) (ALANINE--TRNA LIGASE) (ALARS).	swissprot P40825	Translation, ribosomal structure and biogenesis
4520	859.4	PROBABLE STERIGMATOCYSTIN BIOSYNTHESIS P450 MONOOXYGENASE STCS (EC 1.14.-.-) (CYTOCHROME P450 59).	swissprot Q00714	ND
4521	859.0	DOLICHYL-PHOSPHATE- MANNOSE--PROTEIN MANNOSYLTRANSFERASE 4 (EC 2.4.1.109).	swissprot P46971	Posttranslational modification. protein turnover, chaperones
4522	858.4	CYCLOHEXANONE MONOOXYGENASE (EC 1.14.13.22).	swissprot P12015	Inorganic ion transport and metabolism
4524	854.6	PUTATIVE CALCIUM P- TYPE ATPASE (FRAGMENT).	tremblnew CAB65293	ND
4525	854.5	ORM1 PROTEIN.	swissprot P53224	ND
4526	852.2	RAS PROTEIN.	sptrembl P87018	ND
4527	851.5	PUTATIVE SECRETORY PATHWAY GDP DISSOCIATION INHIBITOR.	swissprot Q10305	ND
4528	850.4	GLUCOAMYLASE PRECURSOR (EC 3.2.1.3) (GLUCAN 1,4-ALPHA- GLUCOSIDASE) (1,4- ALPHA-D-GLUCAN GLUCOHYDROLASE).	swissprot P36914	ND
4529	849.8	GATA FACTOR SREP.	swissprot Q92259	ND
4530	848.8	FRUCTOSE- BISPHOSPHATE ALDOLASE (EC 4.1.2.13).	swissprot P14540	Carbohydrate transport and metabolism
4531	848.8	PUTATIVE TRANSCRIPTIONAL REGULATOR.	sptrembl O13337	ND
4532	848.3	CYTOPLASMIC RIBOSOMAL PROTEIN S13.	tremblnew BAA88058	Translation, ribosomal structure and biogenesis
4533	848.0	PROBABLE PROTEIN KINASE.	tremblnew BAA21391	Signal transduction mechanisms
4534	847.4	HYPOTHETICAL 34.2 KD PROTEIN IN CUS1-RPL20A INTERGENIC REGION.	swissprot Q04013	ND
4535	847.0	Yeast RNA-binding protein ZPR1.	geneseqp W38455	ND
4536	845.2	HYPOTHETICAL 72.8 KD PROTEIN C4G3.09C IN CHROMOSOME III.	sptrembl P87234	ND

4537	844.6	VACUOLAR ATP SYNTHASE SUBUNIT E (EC 3.6.1.34) (V-ATPASE E SUBUNIT) (V-ATPASE 26 KD SUBUNIT).	swissprot Q01278	Energy production and conversion
4538	844.5	HYPOTHETICAL 42.4 KD PROTEIN IN CDC12-ORC6 INTERGENIC REGION.	swissprot P38716	Amino acid transport and metabolism
4539	843.7	NADH-UBIQUINONE OXIDOREDUCTASE 21.3 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3).	swissprot P19968	ND
4540	842.3	40S RIBOSOMAL PROTEIN S12.	sptrembl O59936	ND
4541	841.2	HYPOTHETICAL GTP-BINDING PROTEIN IN SEH1-PRP20 INTERGENIC REGION.	swissprot P53145	ND
4542	840.9	PROBABLE PEROXISOMAL MEMBRANE PROTEIN PMP20 (ALLERGEN ASP F 3).	swissprot O43099	ND
4543	839.2	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew CAB52883	Nucleotide transport
4544	839.1	BIFUNCTIONAL HISTIDINE BIOSYNTHESIS PROTEIN HIS7 [INCLUDES: HISH-TYPE AMIDOTRANSFERASE (EC 2.4.2.-); HISF-TYPE CYCLASE].	swissprot P33734	ND
4545	839.1	HYPOTHETICAL 61.8 KD PROTEIN C12B10.03 IN CHROMOSOME I.	swissprot Q10437	ND
4546	837.9	40S RIBOSOMAL PROTEIN S22 (S15A) (YS24).	swissprot P33953	Translation, ribosomal structure and biogenesis
4547	837.6	CHITIN SYNTHASE REGULATORY FACTOR.	sptrembl P87065	ND
4548	835.4	ACID TREHALASE PRECURSOR (EC 3.2.1.28) (ALPHA,ALPHA-TREHALASE) (ALPHA,ALPHA-TREHALOSE GLUCOHYDROLASE).	swissprot P78617	ND
4549	835.2	NADH-UBIQUINONE OXIDOREDUCTASE 21 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-21KD) (CI-21KD).	swissprot P25711	ND
4550	832.7	PYRUVATE DEHYDROGENASE E1 COMPONENT BETA SUBUNIT.	swissprot Q09171	Energy production and conversion

		MITOCHONDRIAL PRECURSOR (EC 1.2.4.1) (PDHE1-B).		
4551	831.6	CYTOCHROME C.	swissprot P56205	ND
4552	827.9	HISTIDINOL-PHOSPHATE AMINOTRANSFERASE (EC 2.6.1.9) (IMIDAZOLE ACETOL- PHOSPHATE TRANSAMINASE).	swissprot P36605	Amino acid transport and metabolism
4553	827.9	8 KDA CYTOPLASMIC DYNEIN LIGHT CHAIN.	sptrembl O94111	ND
4554	827.8	Protein involved in cephalosporin C biosynthesis.	geneseqp W14439	ND
4555	826.4	HYPOTHETICAL 74.0 KD PROTEIN IN CAJ1-HOM3 INTERGENIC REGION.	swissprot P40032	ND
4556	825.6	HYPOTHETICAL 61.8 KD PEPTIDASE IN MPRI-GCN20 INTERGENIC REGION (EC 3.4.-.-).	swissprot P43590	Amino acid transport and metabolism
4557	824.1	6- PHOSPHOFRUCTOKINASE (EC 2.7.1.11) (PHOSPHOFRUCTOKINASE) (PHOSPHOHEXOKINASE).	swissprot P78985	ND
4558	824.0	BROADLY SELECTIVE SODIUM/NUCLEOSIDE TRANSPORTER HFCNT.	tremblnew AAD52151	Nucleotide transport
4559	823.5	PUTATIVE ZINC- CONTAINING DEHYDROGENASE.	tremblnew CAB53146	ND
4560	822.3	GAL10 BIFUNCTIONAL PROTEIN [INCLUDES: UDP- GLUCOSE 4-EPIMERASE (EC 5.1.3.2) (GALACTOWALDENASE); ALDOSE 1-EPIMERASE (EC 5.1.3.3) (MUTAROTASE)].	swissprot P40801	Cell envelope biogenesis, outer membrane
4561	822.2	DPM2 mannosyl transferase.	geneseqp R47201	Posttranslational modification, protein turnover, chaperones
4562	821.6	DYNAMIN-RELATED PROTEIN DNM1.	swissprot P54861	ND
4563	819.3	SUPEROXIDE DISMUTASE [MN] PRECURSOR (EC 1.15.1.1) (FRAGMENT).	swissprot Q92450	Inorganic ion transport and metabolism
4564	816.0	Aspergillus niger tpiA gene.	geneseqp P70498	Carbohydrate transport and metabolism
4565	816.0	ENOYL-COA HYDRATASE.	sptrembl O53418	Lipid metabolism
4566	815.9	PUTATIVE MITOCHONDRIAL IMPOR1 INNER MEMBRANE TRANSLOCASE SUBUNIT.	tremblnew CAB53081	ND
4567	814.2	SUCCINYL-COA:3-	swissprot P55809	Lipid

		KETOACID-COENZYME A TRANSFERASE PRECURSOR (EC 2.8.3.5) (SUCCINYL COA:3-OXOACID COA-TRANSFERASE) (OXCT).		metabolism
4569	813.2	GENERAL AMINO ACID PERMEASE AGP2.	swissprot P38090	Amino acid transport and metabolism
4570	813.0	YMC1P.	sptrembl Q12002	ND
4571	812.7	HISTONE H4.1.	swissprot P23750	DNA replication, recombination and repair
4572	812.6	60S RIBOSOMAL PROTEIN L9-B (L8) (YL11) (RP25).	swissprot P51401	Translation, ribosomal structure and biogenesis
4573	812.5	PROBABLE CALCIUM-TRANSPORTING ATPASE 6 (EC 3.6.1.38).	swissprot P39986	Inorganic ion transport and metabolism
4574	811.1	ALPHA-ADAPTIN HOMOLOG.	swissprot P91926	ND
4575	810.8	PUTATIVE SMALL NUCLEAR RIBONUCLEOPROTEIN C19A8.13.	sptrembl O13829	Transcription
4576	810.0	NUCLEOSIDE DIPHOSPHATE KINASE.	tremblnew BAA83495	Nucleotide transport
4577	809.0	ERV25 PROTEIN PRECURSOR.	swissprot P54837	ND
4578	808.6	ATP SYNTHASE ALPHA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P37211	Energy production and conversion
4579	808.0	ELONGATION FACTOR 1-BETA HOMOLOG.	tremblnew AAC13264	Translation, ribosomal structure and biogenesis
4580	807.8	HYPOTHETICAL 49.1 KD PROTEIN C11D3.06 IN CHROMOSOME 1.	swissprot Q10085	ND
4581	807.7	PUTATIVE DELTA-1-PYROLINE-5-CARBOXYLATE DEHYDROGENASE.	sptrembl O74766	Energy production and conversion
4582	807.7	MITOCHONDRIAL PHOSPHATE CARRIER PROTEIN (PHOSPHATE TRANSPORT PROTEIN) (P1P) (MITOCHONDRIAL IMPORT RECEPTOR) (P32).	swissprot P23641	ND
4583	807.5	HISTONE H2A VARIANT.	swissprot P48003	ND
4584	806.5	PUTATIVE HUMAN SPLICEOSOME ASSOCIATED PROTEIN 145 (SAP 145) HOMOLOGUE.	tremblnew CAB52720	ND
4585	806.2	PUTATIVE CELL DIVISION PROTEIN KINASE C2F3.15	sptrembl O14098	Signal transduction

		(EC 2.7.1.-).		mechanisms
4586	805.4	An enzyme with sugar transferase activity.	geneseqp W88044	ND
4587	803.7	PUTATIVE ESTERASE.	tremblnew CAB63539	Lipid metabolism
4588	803.3	MEMBRANE ATPASE.	sptrembl O74431	Inorganic ion transport and metabolism
4589	802.1	COPROPORPHYRINOGEN III OXIDASE PRECURSOR (EC 1.3.3.3) (COPROPORPHYRINOGENASE) (COPROGEN OXIDASE).	swissprot P35055	Coenzyme metabolism
4590	802.1	MRNA CLEAVAGE FACTOR 125 KDA SUBUNIT.	sptrembl O43809	ND
4591	801.2	RETINOBLASTOMA BINDING PROTEIN.	tremblnew AAC36349	ND
4592	800.4	3-OXOACYL-[ACYL-CARRIER-PROTEIN]-SYNTHASE.	sptrembl O13355	Lipid metabolism
4593	800.4	TRICHOHECENE 3-O-ACETYLTRANSFERASE.	sptrembl O74644	ND
4594	798.1	HYPOTHETICAL 26.3 KD PROTEIN IN OYE2-GND1 INTERGENIC REGION.	swissprot P38869	ND
4595	797.2	FISSION YEAST (FRAGMENT).	sptrembl P78824	Carbohydrate transport and metabolism
4596	797.1	HYPOTHETICAL 54.2 KD PROTEIN IN ERP5-ORC6 INTERGENIC REGION.	swissprot P38821	Amino acid transport and metabolism
4597	796.8	REPRESSOR PROTEIN.	sptrembl Q00784	ND
4598	796.4	PUTATIVE ABC TRANSPORTER.	sptrembl Q9Y840	ND
4599	796.0	MALTOSE PERMEASE.	sptrembl Q9Y845	ND
4600	795.1	PUTATIVE ALANINE AMINOTRANSFERASE, MITOCHONDRIAL PRECURSOR (EC 2.6.1.2) (GLUTAMIC--PYRUVIC TRANSAMINASE) (GPT) (GLUTAMIC--ALANINE TRANSAMINASE).	swissprot P52893	Amino acid transport and metabolism
4601	793.9	PUTATIVE BETA-MANNOSYLTRANSFERASE.	tremblnew CAB16885	Cell envelope biogenesis, outer membrane
4602	793.7	Product of the ADE1 gene from Candida utilis.	geneseqp R22438	Nucleotide transport
4603	793.4	ATP SYNTHASE DELTA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34) (FRAGMENT).	swissnew P56525	Energy production and conversion
4604	792.8	PSU1.	tremblnew BAA83907	ND
4605	791.6	BETA-N-ACETYLGLUCOSAMINIDASE	sptrembl O82840	Carbohydrate transport and

		E PRECURSOR (EC 3.2.1.30).		metabolism
4606	789.3	WD-40 domain-contg. IEF SSP 9306 protein.	geneseqp R85866	ND
4607	789.2	LINOLEATE DIOL SYNTHASE PRECURSOR.	tremblnew AAD49559	ND
4608	788.8	ALCOHOL DEHYDROGENASE.	tremblnew CAA21782	ND
4609	788.5	METAL RESISTANCE PROTEIN YCF1 (YEAST CADMIUM FACTOR 1).	swissprot P39109	ND
4610	787.7	RS6/L7A RIBOSOMAL PROTEIN HOMOLOG.	tremblnew CAB63790	Translation, ribosomal structure and biogenesis
4611	785.6	PUTATIVE 20KDA SUBUNIT OF THE V-ATPASE.	sptrembl P87252	ND
4612	785.3	ACYL-COA DEHYDROGENASE, SHORT/BRANCHED CHAIN SPECIFIC PRECURSOR (EC 1.3.99.-) (SBCAD) (2-METHYL BRANCHED CHAIN ACYL-COA DEHYDROGENASE) (2-MEBCAD).	swissprot P45954	Lipid metabolism
4613	783.6	ADRENOLEUKODYSTROPHY PROTEIN (ALDP).	swissprot P33897	Lipid metabolism
4614	782.2	4-AMINOBUTYRATE AMINOTRANSFERASE (EC 2.6.1.19) (GAMMA-AMINO-N-BUTYRATE TRANSAMINASE) (GABA TRANSAMINASE) (GABA AMINOTRANSFERASE).	swissprot P14010	Amino acid transport and metabolism
4615	777.3	HISTONE H4.2.	swissprot P23751	DNA replication, recombination and repair
4616	776.8	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew CAB39853	ND
4617	775.9	BLI-3 PROTEIN.	swissprot Q01358	ND
4618	775.0	N-ACETYLGLUCOSAMINE-PHOSPHATE MUTASE.	tremblnew AAD55097	Carbohydrate transport and metabolism
4619	771.8	OPSIN-1.	tremblnew AAD45253	ND
4620	768.2	PUTATIVE ADENOSINE KINASE.	tremblnew CAA19345	Carbohydrate transport and metabolism
4621	768.1	METHIONINE AMINOPEPTIDASE.	sptrembl O60085	Translation, ribosomal structure and biogenesis
4622	768.1	IMPORTIN BETA SUBUNIT.	sptrembl O74476	ND
4623	767.9	PROBABLE ELECTRON TRANSFER FLAVOPROTEIN	swissprot P78790	Energy production and

		ALPHA-SUBUNIT PRECURSOR (ALPHA-ETF).		conversion
4624	767.4	CHROMOSOME XV READING FRAME ORF YOR091W.	sptrembl Q12000	ND
4625	766.0	60S RIBOSOMAL PROTEIN L17-B (YL17-B).	swissprot P46990	Translation, ribosomal structure and biogenesis
4626	763.9	PUTATIVE NADH- DEPENDENT FLAVIN OXIDOREDUCTASE.	sptrembl O94467	Energy production and conversion
4627	763.6	GTPASE ACTIVATING PROTEIN HOMOLOG.	sptrembl O13384	ND
4628	762.9	HYPOTHETICAL 55.8 KD PROTEIN.	tremblnew CAB63552	ND
4629	762.6	SID478P.	tremblnew BAA84693	ND
4630	762.0	Multiple drug resistance Afu- MDR1 protein.	geneseqp W01022	ND
4631	761.4	SIMILAR TO ASPARTATE AMINOTRANSFERASE.	sptrembl Q17994	Amino acid transport and metabolism
4632	760.1	ACTIVATOR 1 41 KD SUBUNIT (REPLICATION FACTOR C 41 KD SUBUNIT).	swissprot P40348	DNA replication, recombination and repair
4633	759.8	ENDOGLUCANASE I (EC 3.2.1.4) (ENDO-1,4-BETA- GLUCANASE) (CARBOXYMETHYL- CELLULASE I) (CMCASE I).	swissprot P23044	ND
4634	759.2	PUTATIVE THIAZOLE SYNTHASE.	tremblnew AAF25444	ND
4635	758.9	SIGNAL SEQUENCE RECEPTOR ALPHA SUBUNIT.	sptrembl Q9Y7B0	Cell motility and secretion
4636	757.7	HYPOTHETICAL 55.5 KD PROTEIN C17A2.05 IN CHROMOSOME I.	sptrembl O13755	Energy production and conversion
4637	757.6	NONALLELIC VEGETATIVE INCOMPATIBILITY PROTEIN HET-C.	sptrembl Q01571	ND
4638	757.5	A. oryzae ATCC20386 carboxypeptidase I protein.	geneseqp W56099	ND
4639	756.3	NI-BINDING UREASE ACCESSORY PROTEIN UREG.	sptrembl Q9XGS2	ND
4640	755.1	HYPOTHETICAL 92.5 KD PROTEIN C25H2.03 IN CHROMOSOME II.	sptrembl P87145	ND
4641	754.8	HYPOTHETICAL 45.2 KD PROTEIN C19A8.06 IN CHROMOSOME I.	sptrembl O13822	ND
4642	754.7	PUTATIVE PROLYL AMINOPEPTIDASE..	tremblnew CAB66205	ND

4643	754.2	PUTATIVE PERMEASE C29B12.14C.	sptrembl O14035	Coenzyme metabolism
4644	751.9	PROBABLE HISTIDINOL-PHOSPHATASE (EC 3.1.3.15).	swissnew O14059	ND
4645	749.9	POTENTIAL PROTEASOME COMPONENT C5 (EC 3.4.99.46) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT C5).	swissprot P23724	Posttranslational modification, protein turnover, chaperones
4646	747.1	ATP SYNTHASE D CHAIN, MITOCHONDRIAL (EC 3.6.1.34).	swissprot O13350	ND
4647	747.0	4-DIHYDROMETHYL-TRISPORATE DEHYDROGENASE.	sptrembl Q01213	ND
4648	746.8	IMPORTIN BETA-1 SUBUNIT (KARYOPHERIN BETA-1 SUBUNIT) (IMPORTIN 95).	swissprot O13864	ND
4649	744.5	PUTATIVE GOLGI MEMBRANE PROTEIN-SORTING PROTEIN.	sptrembl O94291	ND
4650	744.5	NAD(+)-ISOCITRATE DEHYDROGENASE SUBUNIT I PRECURSOR.	sptrembl O13302	Amino acid transport and metabolism
4651	743.9	DNA LIGASE (EC 6.5.1.1) (POLYDEOXYRIBONUCLEOTIDE SYNTHASE [ATP]).	swissprot P12000	DNA replication, recombination and repair
4652	743.7	PROBABLE ATP-DEPENDENT TRANSPORTER YOL075C.	swissprot Q08234	ND
4653	743.1	PUTATIVE METHYLTRANSFERASE NCL1 (EC 2.1.1.-).	swissnew P38205	Translation, ribosomal structure and biogenesis
4654	742.7	20 KD NUCLEAR CAP BINDING PROTEIN (NCBP) (CBP20) (FRAGMENT).	swissprot P52299	Transcription
4655	741.3	MULTICATALYTIC PROTEINASE 222 aa. chain M+1	pdb 1RYP	Posttranslational modification, protein turnover, chaperones
4656	740.4	60S RIBOSOMAL PROTEIN L21.	tremblnew CAB44755	Translation, ribosomal structure and biogenesis
4657	739.5	PUTATIVE THIAMINE BIOSYNTHESIS PROTEIN.	sptrembl O94266	ND
4658	739.2	PROBABLE GLUCOSE TRANSPORTER RCO-3.	swissprot Q92253	ND
4660	738.9	YIP3 PROTEIN.	swissprot P53633	ND
4661	737.7	SERINE PALMITOYLTRANSFERASE 2 (EC 2.3.1.50) (LONG CHAIN BASE	swissprot Q09925	Coenzyme metabolism

		BIOSYNTHESIS PROTEIN 2) (SPT 2).		
4662	737.6	RASP F 9 (FRAGMENT).	sptrembl O42800	Carbohydrate transport and metabolism
4663	737.2	UBIQUITIN CARBOXYL- TERMINAL HYDROLASE (HOMOLOGY TO UBIQUITIN CARBOXYL- TERMINAL HYDROLASE).	sptrembl Q11119	ND
4664	737.1	EUKARYOTIC TRANSLATION INITIATION FACTOR 2 ALPHA SUBUNIT (EIF-2- ALPHA).	swissprot P56286	Translation, ribosomal structure and biogenesis
4665	736.7	PUTATIVE GLYCOSYL TRANSFERASE.	sptrembl O74878	Cell envelope biogenesis, outer membrane
4666	735.3	GLUCOSE-6-PHOSPHATE ISOMERASE, CYTOSOLIC (EC 5.3.1.9) (GPI) (PHOSPHOGLUCOSE ISOMERASE) (PGI) (PHOSPHOHEXOSE ISOMERASE) (PHI).	sptrembl O94371	Carbohydrate transport and metabolism
4667	733.7	PUTATIVE ALPHA- GLUCAN SYNTHASE.	sptrembl O94638	ND
4668	732.9	PROBABLE LACTOYLGLUTATHIONE LYASE (EC 4.4.1.5) (METHYLGLYOXALASE) (ALDOKETOMUTASE) (GLYOXALASE I) (GLX I) (KETONE-ALDEHYDE MUTASE) (S-D- LACTOYLGLUTATHIONE METHYLGLYOXAL LYASE).	swissprot Q09751	Amino acid transport and metabolism
4669	732.1	GMP SYNTHASE [GLUTAMINE- HYDROLYZING] (EC 6.3.5.2) (GLUTAMINE AMIDOTRANSFERASE) (GMP SYNTHETASE).	swissprot P38625	Nucleotide transport
4670	731.7	SIMILAR TO CALCIUM- BINDING EF-HAND PROTEIN.	sptrembl O22788	ND
4671	731.6	CHROMOSOME XII COSMID 9470	sptrembl Q06287	ND
4672	731.3	PROBABLE ZINC METALLOPEPTIDASE C17A5.04C PRECURSOR (EC 3.4.24.-).	swissprot O13766	ND
4673	730.7	HYPOTHETICAL 54.2 KD TRP-ASP REPEATS CONTAINING PROTEIN C29A4.08C IN CHROMOSOME I.	swissprot O14011	ND

4674	729.8	PUTATIVE TRIGLYCERIDE LIPASE-CHOLESTEROL ESTERASE (EC 3.1.1.-).	sptrembl P78898	ND
4675	729.1	PHOSPHOLIPASE D PRECURSOR (EC 3.1.4.4) (CHOLINE PHOSPHATASE).	swissprot Q59332	ND
4676	727.5	HYPOTHETICAL 32.5 KD PROTEIN YLR351C.	swissprot P49954	ND
4677	724.6	60S RIBOSOMAL PROTEIN L27-A.	swissprot O14388	ND
4678	723.9	PHOSPHOENOLPYRUVATE CARBOXYKINASE [ATP] (EC 4.1.1.49).	swissprot O13434	Energy production and conversion
4679	723.8	AMINOPEPTIDASE Y PRECURSOR (EC 3.4.11.-).	swissprot P37302	ND
4680	723.7	ATP SYNTHASE SUBUNIT 4, MITOCHONDRIAL. PRECURSOR (EC 3.6.1.34).	swissprot O13349	ND
4681	723.7	GUANOSINE-DIPHOSPHATASE (EC 3.6.1.42) (GDPASE).	swissprot P32621	ND
4682	723.5	PUTATIVE POLY(A)-BINDING PROTEIN FABM.	sptrembl Q92227	Transcription
4683	722.7	MSF1 PROTEIN.	swissprot P35200	ND
4684	722.3	FLAVOHEMOGLOBIN.	sptrembl O74183	Energy production and conversion
4685	720.6	PUTATIVE RIBOSE 5-PHOSPHATE ISOMERASE.	tremblnew CAB61273	Carbohydrate transport and metabolism
4686	720.5	HYPOTHETICAL 20.9 KD PROTEIN	sptrembl O94286	ND
4687	720.4	PUTATIVE HYDROXYMETHYLGLUTARYL-COA LYASE PRECURSOR.	sptrembl O81027	Amino acid transport and metabolism
4688	720.0	60S RIBOSOMAL PROTEIN L23A (L25).	swissprot P51997	Translation, ribosomal structure and biogenesis
4689	720.0	PHOSPHOGLUCOMUTASE 2 (EC 5.4.2.2) (GLUCOSE PHOSPHOMUTASE 2) (PGM 2).	swissprot P37012	Carbohydrate transport and metabolism
4690	717.6	Aspergillus nidulans essential protein AN17.	geneseqp Y06418	ND
4691	713.2	SMALL ZINC FINGER-LIKE PROTEIN.	sptrembl Q9Y8A7	ND
4692	712.9	PROHIBITIN (FRAGMENT).	sptrembl O13357	Posttranslational modification, protein turnover, chaperones
4693	712.8	MULTIDRUG RESISTANCE PROTEIN 1.	sptrembl O43121	ND
4694	712.1	SIMILAR TO YEAST VACUOLAR SORTING PROTEIN VPS29/PEP11.	tremblnew CAB52425	ND

4695	711.6	PROBABLE GLUTAMYL-TRNA(GLN) AMIDOTRANSFERASE SUBUNIT A. MITOCHONDRIAL PRECURSOR (GLU-ADT SUBUNIT A).	swissnew Q03557	Translation, ribosomal structure and biogenesis
4696	711.3	HYPOTHETICAL 48.3 KD PROTEIN IN HSP26-TIF32 INTERGENIC REGION.	swissprot P38248	ND
4697	710.3	AGSPL1 PROTEIN.	sptrembl O60028	Amino acid transport and metabolism
4698	707.9	PUTATIVE PROLINE-TRNA SYNTHETASE.	sptrembl O74765	Translation, ribosomal structure and biogenesis
4699	707.7	60S RIBOSOMAL PROTEIN L9, MITOCHONDRIAL PRECURSOR (YML9).	swissprot P31334	Translation, ribosomal structure and biogenesis
4700	707.0	Dihydroxyacetone-3-phosphate protein.	geneseqp Y23747	ND
4701	706.5	60S RIBOSOMAL PROTEIN L13.	swissprot O74175	ND
4702	706.1	PUTATIVE GLUCANASE PRECURSOR.	tremblnew CAB57923	ND
4703	705.7	An enzyme with sugar transferase activity.	geneseqp W88044	ND
4704	705.0	PUTATIVE PROLYL-TRNA SYNTHETASE YHR020W (EC 6.1.1.15) (PROLINE--TRNA LIGASE) (PRORS).	swissprot P38708	Translation, ribosomal structure and biogenesis
4705	704.5	HYPOTHETICAL 18.8 KD PROTEIN.	sptrembl O43073	ND
4706	704.4	MITOCHONDRIAL LON PROTEASE HOMOLOG 1 PRECURSOR (EC 3.4.21.-).	swissprot P93647	Posttranslational modification, protein turnover, chaperones
4707	703.9	GARI PROTEIN.	swissnew P28007	ND
4708	702.3	HYPOTHETICAL 51.9 KD PROTEIN IN PFK27-RPL25 INTERGENIC REGION PRECURSOR.	swissprot Q08271	ND
4709	700.1	HYPOTHETICAL 80.9 KD PROTEIN (FRAGMENT).	tremblnew CAB60246	ND
4710	699.6	HYPOTHETICAL 56.4 KD PROTEIN IN RPL30-CWH41 INTERGENIC REGION PRECURSOR.	swissprot P53189	ND
4711	698.7	HOMOSERINE DEHYDROGENASE (EC 1.1.1.3) (HDH).	swissnew P31116	Amino acid transport and metabolism
4712	698.6	NUCLEAR TRANSPORT FACTOR 2 (NIF-2) (NUCLEAR TRANSPORT FACTOR P10).	swissprot P33331	ND

4713	698.5	PHENYLALANINE AMMONIUM LYASE.	sptrembl O93967	ND
4714	698.3	VEGETATIBLE INCOMPATIBILITY PROTEIN HET-E-1.	swissprot Q00808	ND
4715	697.6	HYPOTHETICAL 130.6 KD PROTEIN C9G1.10C IN CHROMOSOME I.	sptrembl O14306	ND
4716	695.3	HYPOTHETICAL 57.6 KD PROTEIN.	sptrembl Q9Y7D4	ND
4717	694.5	ADENYLOSUCCINATE SYNTHETASE (EC 6.3.4.4).	tremblnew CAB59683	Nucleotide transport
4718	694.4	T-COMPLEX PROTEIN 1, ALPHA SUBUNIT HOMOLOG, CHAPERONIN FAMILY.	sptrembl O94501	Posttranslational modification, protein turnover, chaperones
4719	693.3	HYPOTHETICAL 34.2 KD PROTEIN IN CUS1-RPL20A INTERGENIC REGION.	swissprot Q04013	ND
4720	693.3	HYPOTHETICAL 29.4 KD PROTEIN IN STE6-LOS1 INTERGENIC REGION.	swissprot P36039	ND
4721	692.4	HYPOTHETICAL 24.1 KD PROTEIN C17A5.08 IN CHROMOSOME I PRECURSOR.	swissprot O13770	ND
4722	691.9	PROBABLE MALATE OXIDOREDUCTASE [NAD] (EC 1.1.1.38) (MALIC ENZYME).	swissprot P26616	ND
4723	691.6	PROBABLE ZINC METALLOPEPTIDASE C17A5.04C PRECURSOR (EC 3.4.24.-).	swissprot O13766	ND
4724	690.4	ADENOSYLHOMOCYSTEINASE (EC 3.3.1.1) (S-ADENOSYL-L-HOMOCYSTEINE HYDROLASE) (ADOHCYASE).	swissprot P39954	Coenzyme metabolism
4725	690.4	EXO-1,3-BETA-GLUCANASE/1,3-BETA-D-GLUCAN GLUCANOHYDROLASE (EC 3.2.1.58) (GLUCAN 1,3-BETA-GLUCOSIDASE) (EXO-1,3-BETA-GLUCOSIDASE).	sptrembl Q12626	ND
4726	689.7	EUKARYOTIC INITIATION FACTOR 4A (EIF-4A).	swissprot P47943	DNA replication, recombination and repair
4727	689.6	PURU PROTEIN.	sptrembl Q9X7F7	Nucleotide transport
4728	689.4	ALFA-L-RHAMNOSIDASE (EC 3.2.1.40).	tremblnew CAB53341	ND
4729	688.1	FATTY ACID DESATURASE	sptrembl O74645	ND

		(FRAGMENT).		
4730	687.9	HYPOTHETICAL 34.1 KD PROTEIN C11D3.03C IN CHROMOSOME I.	swissprot Q10082	ND
4731	687.6	DOLICHYL-PHOSPHATE- MANNOSE--PROTEIN MANNOSYLTRANSFERASE 1 (EC 2.4.1.109).	swissprot O74189	Posttranslational modification, protein turnover, chaperones
4732	687.3	HEAT SHOCK PROTEIN 70 (FRAGMENT).	sptrembl Q92260	Posttranslational modification, protein turnover, chaperones
4733	686.7	EF-HAND PROTEIN.	tremblnew CAB55175	ND
4734	686.6	PEPTIDE SYNTHETASE.	sptrembl Q01135	ND
4735	684.8	HYPOTHETICAL 285.2 KD PROTEIN.	sptrembl O60055	ND
4736	684.7	25 KDA PROTEIN ELICITOR.	tremblnew AAD53944	ND
4737	684.5	GENRAL ALPHA- GLUCOSIDE PERMEASE.	swissprot P53048	ND
4738	684.3	GLUTATHIONE S- TRANSFERASE.	sptrembl O59827	Posttranslational modification, protein turnover, chaperones
4739	684.1	HYPOTHETICAL 49.5 KD PROTEIN.	tremblnew CAB41125	Posttranslational modification, protein turnover, chaperones
4740	683.8	SERINE-TYPE CARBOXYPEPTIDASE F PRECURSOR (EC 3.4.16.-) (PROTEINASE F) (CPD-II).	swissprot P52718	ND
4741	682.2	ZK669.4 PROTEIN.	sptrembl Q23571	Energy production and conversion
4742	681.5	NIF-U LIKE PROTEIN.	tremblnew CAB61462	Energy production and conversion
4743	681.3	RODLET PROTEIN PRECURSOR.	swissprot P28346	ND
4744	681.0	HYPOTHETICAL 39.9 KD PROTEIN.	sptrembl O74507	ND
4745	680.8	HYPOTHETICAL 97.1 KD PROTEIN C32A11.02C IN CHROMOSOME I.	swissprot Q10327	ND
4746	680.5	PUTATIVE RHO GDP- DISSOCIATION INHIBITOR (RHO GDI).	sptrembl O14224	ND
4747	679.6	HYPOTHETICAL 17.3 KD PROTEIN.	sptrembl Q9X7U1	ND
4748	679.1	UBIQUITIN-LIKE PROTEIN DSK2.	swissprot P48510	ND
4749	679.0	LP620P.	sptrembl Q02895	Energy production and conversion
4750	678.7	HYDROXYLASE.	sptrembl O94115	ND

4751	678.7	ACTIN.	swissprot O13419	Cell division and chromosome partitioning
4752	678.6	20 KD NUCLEAR CAP BINDING PROTEIN (NCBP) (CBP20) (FRAGMENT).	swissprot P52299	Transcription
4754	677.4	PROBABLE ATP-DEPENDENT TRANSPORTER C29A3.09C.	sptrembl O59672	ND
4755	677.1	HELICASE.	sptrembl Q92770	ND
4756	676.6	HEAT SHOCK PROTEIN 70 HOMOLOG YHR064C.	swissprot P38788	Posttranslational modification, protein turnover, chaperones
4757	675.7	SPLICESOME-ASSOCIATED PROTEIN.	sptrembl O59706	ND
4758	675.0	F27D4.5 PROTEIN.	sptrembl Q93619	Energy production and conversion
4759	674.2	CHROMOSOME XII READING FRAME ORF YLR009W.	sptrembl Q07915	Translation, ribosomal structure and biogenesis
4760	674.2	BRANCHED-CHAIN AMINO ACID AMINOTRANSFERASE, CYTOSOLIC (EC 2.6.1.42) (BCAT) (TWT2 PROTEIN).	swissprot P47176	Coenzyme metabolism
4761	673.0	60S RIBOSOMAL PROTEIN L6-B (L17) (YL16) (RP18).	swissprot P05739	ND
4762	671.0	PROBABLE SUCCINYL-COA LIGASE [GDP-FORMING] ALPHA-CHAIN, MITOCHONDRIAL PRECURSOR (EC 6.2.1.4) (SUCCINYL-COA SYNTHETASE, ALPHA CHAIN) (SCS- ALPHA).	swissprot O13750	Energy production and conversion
4763	670.8	TRYPTOPHANYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.2) (TRYPTOPHAN-- TRNA LIGASE) (TRPRS).	swissprot Q12109	Translation, ribosomal structure and biogenesis
4764	670.4	26S PROTEASOME REGULATORY SUBUNIT SUN1.	swissprot P38886	ND
4765	670.4	HYPOTHETICAL 49.1 KD PROTEIN.	sptrembl O42964	ND
4766	669.8	SPLICING FACTOR U2AF 50 KD SUBUNIT (U2 AUXILIARY FACTOR 50 KD SUBUNIT) (U2 SNRNP AUXILIARY FACTOR LARGE SUBUNIT).	swissprot Q24562	ND
4767	669.6	HEXOSE TRANSPORTER.	sptrembl O13311	ND
4768	669.3	UTR2 PROTEIN (UNKNOWN TRANSCRIPT 2	swissprot P32623	Carbohydrate transport and

		PROTEIN).		metabolism
4769	669.1	PROBABLE KYNURENINASE (EC 3.7.1.3) (L-KYNURENINE HYDROLASE).	swissprot Q05979	Amino acid transport and metabolism
4770	668.9	GLUTATHIONE REDUCTASE (GR).	sptrembl Q9WXD5	Energy production and conversion
4771	668.1	PATHOGENICITY PROTEIN.	sptrembl O93846	ND
4772	667.8	ELECTRON TRANSPORT 312 aa, chain A	pdb 1EFV	Energy production and conversion
4773	667.6	YEAST PROTEASOME COMPONENT PRE4 HOMOLOG.	tremblnew CAB54818	Posttranslational modification, protein turnover, chaperones
4774	667.4	SEXUAL DEVELOPMENT REGULATOR 1.	tremblnew CAB52588	ND
4775	667.1	SMALL ZINC FINGER-LIKE PROTEIN.	sptrembl Q9Y8A8	ND
4776	665.5	HYPOTHETICAL 64.0 KD PROTEIN C20G4.05C IN CHROMOSOME I.	swissprot O13390	ND
4777	664.4	PUTATIVE COATOMER BETA SUBUNIT.	tremblnew CAB46767	ND
4778	664.2	RNA BINDING PROTEIN.	sptrembl O74978	Transcription
4779	663.5	MOLYBDOPTERIN SYNTHASE LARGE SUBUNIT CNXH.	sptrembl Q9Y8C1	ND
4780	661.9	MOLLUSK-DERIVED GROWTH FACTOR.	sptrembl O96697	ND
4781	661.2	HEXOKINASE (EC 2.7.1.1).	sptrembl O93964	ND
4782	659.4	OXIDOREDUCTASE OF SHORT-CHAIN.	sptrembl Q9X9S4	ND
4783	657.9	PROTEIN KINASE.	sptrembl O59790	ND
4784	657.5	PUTATIVE 26S PROTEASOME SUBUNIT.	tremblnew CAB63792	ND
4785	656.7	ZINC-FINGER PROTEIN ZPR1.	swissprot O13724	ND
4786	656.6	HYPOTHETICAL 14.4 KD PROTEIN IN RNRI-ALD3 INTERGENIC REGION.	swissprot P40046	ND
4787	656.2	MAL3 PROTEIN.	swissnew Q10113	ND
4788	655.9	HYPOTHETICAL AMINOTRANSFERASE C6B12.04C (EC 2.6.1.-).	swissprot O14209	Amino acid transport and metabolism
4789	654.8	PUTATIVE CINNAMOYL- COA REDUCTASE.	tremblnew CAB58730	Carbohydrate transport and metabolism
4790	651.0	SEC13-RELATED PROTEIN.	swissprot P55735	ND
4791	650.8	HYPOTHETICAL 42.3 KD PROTEIN IN YTA2-DIT1 INTERGENIC REGION.	swissprot Q04179	Nucleotide transport
4792	649.9	60S RIBOSOMAL PROTEIN L32-A.	swissprot P79015	Translation, ribosomal structure and

				biogenesis
4793	648.8	AVERANTIN OXIDOREDUCTASE (EC 1.14.- -) (CYTOCHROME P450 60A1).	swissprot Q12732	ND
4794	648.1	ZINC FINGER PROTEIN SFP1.	swissprot P32432	ND
4795	647.4	FISSION YEAST (FRAGMENT).	sptrembl P78810	ND
4796	647.2	IGE-BINDING PROTEIN (FRAGMENT).	sptrembl O74263	ND
4797	646.9	GLYCINE DEHYDROGENASE [DECARBOXYLATING], MITOCHONDRIAL PRECURSOR (EC 1.4.4.2) (GLYCINE DECARBOXYLASE) (GLYCINE CLEAVAGE SYSTEM P- PROTEIN).	swissprot P49095	Amino acid transport and metabolism
4798	644.7	6-PHOSPHOGLUCONATE DEHYDROGENASE (EC 1.1.1.44).	sptrembl O60037	Carbohydrate transport and metabolism
4799	644.3	60S RIBOSOMAL PROTEIN L5.	swissprot O59953	Translation, ribosomal structure and biogenesis
4800	643.1	ACYL-COA DEHYDROGENASE, PUTATIVE.	tremblnew AAF12182	Lipid metabolism
4801	642.9	PROBABLE GAMMA- GLUTAMYL PHOSPHATE REDUCTASE.	tremblnew CAB57445	Amino acid transport and metabolism
4802	642.5	ALK2.	sptrembl O74128	ND
4803	642.2	HYPOTHETICAL 52.2 KD PROTEIN.	sptrembl Q12116	ND
4804	639.5	ISOTRICHODERMIN C-15 HYDROXYLASE (EC 1.14.- -) (CYTOCHROME P450 65A1).	swissprot O13317	ND
4805	638.6	FK506-BINDING PROTEIN PRECURSOR (FKBP-21) (PEPTIDYL-PROLYL CIS- TRANS ISOMERASE) (PPIASE) (EC 5.2.1.8)	swissprot O60046	Posttranslational modification, protein turnover, chaperones
4806	638.4	ATP PHOSPHORIBOSYLTRANSF ERASE (EC 2.4.2.17).	swissprot P40373	Amino acid transport and metabolism
4807	638.2	40S RIBOSOMAL PROTEIN S24 (RP50).	swissprot P26782	Translation, ribosomal structure and biogenesis
4808	638.0	NAD(P) TRANSHYDROGENASE (EC 1.6.1.1) (PYRIDINE NUCLEOTIDE TRANSHYDROGENASE) (NICOTINAMIDE	sptrembl Q18031	Energy production and conversion

		NUCLEOTIDE TRANSHYDROGENASE).		
4809	637.5	PROBABLE ELECTRON TRANSFER FLAVOPROTEIN- UBIQUINONE OXIDOREDUCTASE PRECURSOR (EC 1.5.5.1) (ETF-QO) (ETF- UBIQUINONE OXIDOREDUCTASE) (ETF DEHYDROGENASE) (ELECTRON- TRANSFERRING- FLAVOPROTEIN DEHYDROGENASE).	swissprot P87111	Energy production and conversion
4810	636.9	CAMP-DEPENDENT PROTEIN KINASE REGULATORY CHAIN.	swissnew O59922	ND
4811	636.3	ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P23704	Energy production and conversion
4812	635.4	60S RIBOSOMAL PROTEIN L17-B (YL17-B).	swissprot P46990	Translation, ribosomal structure and biogenesis
4813	635.3	PROBABLE MEMBRANE PROTEIN YOL130W.	sptrembl O13657	Inorganic ion transport and metabolism
4814	634.9	MITOCHONDRIAL IMPORT RECEPTOR SUBUNIT TOM20 (MITOCHONDRIAL 20 KD OUTER MEMBRANE PROTEIN) (MOM19 PROTEIN) (TRANSLOCASE OF OUTER MEMBRANE 20 KD SUBUNIT).	swissprot P35848	ND
4815	634.2	NADH DEHYDROGENASE SUBUNIT.	sptrembl Q01388	ND
4816	634.2	60S RIBOSOMAL PROTEIN L33-B (L37B) (YL37) (RP47).	swissprot P41056	ND
4817	634.1	GLUTATHIONE S- TRANSFERASE.	sptrembl O59827	Posttranslational modification, protein turnover, chaperones
4818	633.8	CALCIUM-TRANSPORTING ATPASE 3 (EC 3.6.1.38).	swissprot P22189	Inorganic ion transport and metabolism
4819	633.4	HYPOTHETICAL 33.0 KD PROTEIN C25H2.06C IN CHROMOSOME II.	sptrembl P87148	ND
4820	632.5	PEROXISOMAL MEMBRANE PROTEIN PMP47A.	swissprot P21245	ND
4821	632.2	HYPOTHETICAL 41.7 KD PROTEIN C3C7.07C IN CHROMOSOME I.	sptrembl O14133	ND

4822	632.1	PUTATIVE CINNAMOYL-COA REDUCTASE.	tremblnew CAB58730	Carbohydrate transport and metabolism
4823	629.5	6,7-DIMETHYL-8-RIBITYLLUMAZINE SYNTHASE.	tremblnew AAD55372	ND
4824	629.5	OXIDOREDUCTASE, SHORT CHAIN DEHYDROGENASE/REDUCTASE FAMILY.	sptrembl Q9WYD3	ND
4825	629.3	PUTATIVE OXIDOREDUCTASE C2F3.05C (EC 1.-.-.-).	sptrembl O14088	ND
4826	628.7	MITOCHONDRIAL PHOSPHATE CARRIER PROTEIN (PHOSPHATE TRANSPORT PROTEIN) (PTP) (MITOCHONDRIAL IMPORT RECEPTOR) (P32).	swissprot P23641	ND
4827	628.0	Yeast immunophilin FKBP46.	geneseqp W68011	Posttranslational modification, protein turnover, chaperones
4828	627.9	VACUOLAR PROTEIN SORTING-ASSOCIATED PROTEIN VPS28.	swissprot Q02767	ND
4829	627.8	Human cytidine deaminase.	geneseqp W13658	Nucleotide transport
4830	626.3	SMALL NUCLEAR RIBONUCLEOPROTEIN SM D3 (SNRNP CORE PROTEIN D3) (SM-D3).	swissprot P43331	Transcription
4831	623.8	MITOCHONDRIAL RESPIRATORY FUNCTION PROTEIN HOMOLOG.	swissprot Q10488	ND
4832	623.6	MALTOSE PERMEASE.	sptrembl Q9Y845	ND
4833	623.0	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl O74797	ND
4834	621.6	GABA PERMEASE.	sptrembl Q9Y860	Amino acid transport and metabolism
4835	621.2	GTP CYCLOHYDROLASE II (EC 3.5.4.25).	swissprot P50139	Coenzyme metabolism
4836	621.1	NADH-UBIQUINONE OXIDOREDUCTASE 14.8 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-14.8KD) (CI-14.8KD).	swissprot P42114	ND
4837	620.7	ASPARTIC PROTEINASE II-1.	tremblnew G1246046	ND
4838	620.2	AMINO ACID PERMEASE.	sptrembl O59813	ND
4839	620.0	TRANSLATIONALLY CONTROLLED TUMOR PROTEIN HOMOLOG (TCTP).	swissprot P35691	ND
4840	619.9	SERINE/THREONINE-PROTEIN KINASE KSP1 (EC	swissnew P38691	Signal transduction

		2.7.1.-).		mechanisms
4841	619.6	HEAT SHOCK PROTEIN STI1.	swissprot P15705	ND
4842	619.5	PROTEIN TRANSLATION FACTOR SUI1.	swissprot P32911	Translation, ribosomal structure and biogenesis
4843	618.4	ASH1.	sptrembl Q24189	ND
4844	618.2	PROBABLE ATP-DEPENDENT PERMEASE PRECURSOR.	swissprot P25371	ND
4845	617.9	PEPTIDYL-PROLYL CIS-TRANS ISOMERASE, FK506-BINDING PROTEIN.	tremblnew CAB46710	Posttranslational modification, protein turnover, chaperones
4846	617.4	UBIQUINONE BIOSYNTHESIS METHYLTRANSFERASE COQ5 (EC 2.1.1.-).	swissprot P49017	Coenzyme metabolism
4847	615.9	RAS-2 PROTEIN.	swissnew Q01387	ND
4848	615.8	O-METHYLSTERIGMATOCYSTIN OXIDOREDUCTASE (EC 1.14.1.-) (OMST OXIDOREDUCTASE) (CYTOCHROME P450 64).	swissprot O13345	ND
4849	615.4	HYPOTHETICAL 27.1 KD PROTEIN IN ACS1-GCV3 INTERGENIC REGION.	swissprot P39721	ND
4850	615.4	HYPOTHETICAL 23.6 KD PROTEIN.	sptrembl O14451	ND
4851	614.2	c424 gene product.	geneseq R43654	ND
4852	613.9	60S RIBOSOMAL PROTEIN L37.	swissprot O44125	Translation, ribosomal structure and biogenesis
4853	613.6	HYPOTHETICAL 39.6 KD PROTEIN IN MTD1-NUP133 INTERGENIC REGION.	swissprot P36160	ND
4854	612.4	ORF YPL252C.	sptrembl Q12184	Energy production and conversion
4855	612.1	PECTATE LYASE D.	sptrembl Q00845	ND
4856	611.9	HYPOTHETICAL 44.2 KD PROTEIN.	tremblnew CAB65618	ND
4857	611.7	ATP SYNTHASE ALPHA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P24487	Energy production and conversion
4858	611.4	TRANSMEMBRANE PROTEIN.	tremblnew CAB65007	ND
4859	611.2	THYMOCYTE PROTEIN CTHY28KD	sptrembl Q90679	ND
4860	609.5	PUTATIVE TRANSCRIPTIONAL REPRESSOR C30D10.02.	sptrembl O14348	ND
4861	609.4	HYPOTHETICAL 38.3 KD PROTEIN IN PRP16-SRP40	swissprot P36164	ND

		INTERGENIC REGION.		
4862	609.3	THIOREDOXIN.	swissprot P29429	Energy production and conversion
4863	608.8	HYPOTHETICAL 31.1 KD PROTEIN IN SIP18-SPT21 INTERGENIC REGION.	swissprot Q03219	ND
4864	608.1	CYTOCHROME C HEME LYASE (EC 4.4.1.17) (CCHL) (HOLOCYTOCHROME-C SYNTHASE).	swissnew P14187	ND
4865	607.9	NADH-UBIQUINONE OXIDOREDUCTASE 10.5 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I) (CI).	swissprot Q07842	ND
4866	607.7	PUTATIVE D-3-PHOSPHOGLYCERATE DEHYDROGENASE YIL074W (EC 1.1.1.95) (PGDH).	swissprot P40510	ND
4867	606.5	BETA-GLUCOSIDASE 1 PRECURSOR (EC 3.2.1.21) (GENTIOBIASE) (CELLOBIASE) (BETA-D-GLUCOSIDE GLUCOHYDROLASE).	swissprot P48825	ND
4868	606.0	CALNEXIN HOMOLOG PRECURSOR.	swissprot P36581	ND
4869	605.8	NUCLEASE.	sptrembl O60168	ND
4870	605.8	PUTATIVE D-3-PHOSPHOGLYCERATE DEHYDROGENASE YER081W (EC 1.1.1.95) (PGDH).	swissprot P40054	Amino acid transport and metabolism
4871	605.6	B0250.5 PROTEIN.	sptrembl Q9XT10	Lipid metabolism
4872	605.6	UNKNOWN PROTEIN.	sptrembl O22730	ND
4873	604.9	TOXD PROTEIN.	swissprot P54006	ND
4874	604.8	HYPOTHETICAL 41.5 KD PROTEIN IN GZF3-IME2 INTERGENIC REGION.	swissprot P42946	ND
4875	604.8	HYPOTHETICAL 81.0 KD PROTEIN C1B3.10C IN CHROMOSOME I PRECURSOR.	sptrembl O13875	ND
4876	602.9	60S RIBOSOMAL PROTEIN 1.26.	swissprot Q39411	Translation, ribosomal structure and biogenesis
4877	602.4	TOLUENESULFONATE ZINC-INDEPENDENT ALCOHOL DEHYDROGENASE.	sptrembl P94681	ND
4878	602.2	YPT1-RELATED PROTEIN 2.	swissprot P17609	ND
4879	600.9	PREDICTED PROTEIN OF UNKNOWN FUNCTION.	sptrembl Q9ZR11	ND

4880	600.6	DUTP PYROPHOSPHATASE-LIKE PROTEIN (EC 3.6.1.23).	tremblnew CAB51171	Nucleotide transport
4881	600.1	LANOSTEROL SYNTHASE (EC 5.4.99.7) (OXIDOSQUALENE-- LANOSTEROL CYCLASE) (2,3-EPOXYSQUALENE-- LANOSTEROL CYCLASE) (OSC).	swissprot Q10231	Lipid metabolism
4882	598.3	HYPOTHETICAL 38.7 KD PROTEIN.	tremblnew CAB59917	ND
4883	598.0	HYPOTHETICAL 49.1 KD PROTEIN.	sptrembl O74556	ND
4884	595.0	MBF1 PROTEIN (ORF YOR298C-A).	sptrembl O14467	ND
4885	592.6	60S RIBOSOMAL PROTEIN L22.	tremblnew CAB11194	ND
4886	592.4	EIF-5A.	sptrembl O94083	Translation, ribosomal structure and biogenesis
4887	592.4	HYPOTHETICAL 23.4 KD PROTEIN C3G6.05 IN CHROMOSOME I.	sptrembl O14142	ND
4888	591.4	RNA POLYMERASE I SECOND-LARGEST SUBUNIT (EC 2.7.7.6).	sptrembl O74633	Transcription
4889	591.4	PUTATIVE SEPTIN.	tremblnew CAB52419	ND
4890	589.2	UBIQUITIN-CONJUGATING ENZYME E2-17 KD 4 (EC 6.3.2.19) (UBIQUITIN- PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN) (E2(17)KB 4).	swissprot P70711	ND
4891	589.0	CYTOCHROME B2 PRECURSOR (EC 1.1.2.3) (L- LACTATE DEHYDROGENASE (CYTOCHROME)) (L- LACTATE FERRICYTOCHROME C OXIDOREDUCTASE) (L- LCR).	swissprot P09437	Energy production and conversion
4892	588.8	HYPOTHETICAL 32.0 KD PROTEIN IN GOG5-NIF3 INTERGENIC REGION.	swissprot P53078	ND
4893	588.6	HYPOTHETICAL 67.7 KD PROTEIN C23C11.03 IN CHROMOSOME I.	swissprot O13910	ND
4894	588.3	ENDOSOMAL P24B PROTEIN PRECURSOR (24 KD ENDOMEMBRANE PROTEIN) (BASIC 24 KD LATE ENDOCYTIC INTERMEDIATE	swissprot P32803	ND

		COMPONENT).		
4895	588.2	UBIQUITIN-CONJUGATING ENZYME E2-17.5 KD (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN).	swissprot P52490	ND
4896	587.7	HYPOTHETICAL 32 KD PROTEIN.	sptrembl Q01391	ND
4897	587.2	IMPORTIN BETA-1 SUBUNIT (KARYOPHERIN BETA-1 SUBUNIT) (IMPORTIN 95).	swissprot O13864	ND
4898	586.4	NUCLEAR PROTEIN SNF4 (REGULATORY PROTEIN CAT3).	swissprot P12904	ND
4899	586.0	PUTATIVE ATP-DEPENDENT RNA HELICASE.	sptrembl O48534	ND
4900	585.7	HYPOTHETICAL 49.6 KD PROTEIN IN FBA1-TOA2 INTERGENIC REGION.	swissprot P35728	ND
4901	584.7	LIGASE 603 aa, chain A	pdb 1BS2	Translation, ribosomal structure and biogenesis
4902	584.4	SPERMIDINE SYNTHASE.	sptrembl Q9Y8H7	Amino acid transport and metabolism
4903	584.1	SORBITOL UTILIZATION PROTEIN SOU2.	swissprot P87218	ND
4904	582.6	HYPOTHETICAL 65.8 KD PROTEIN.	sptrembl O74963	ND
4905	582.6	MINICHROMOSOME MAINTENANCE PROTEIN 3 HOMOLOG.	swissprot P30666	DNA replication, recombination and repair
4906	582.5	RAT PHOSPHORIBOSYLPHOSPHATE SYNTHETASE (PRPS2).	sptrembl Q63462	Nucleotide transport
4907	580.6	PUTATIVE ZINC-BINDING DEHYDROGENASE.	sptrembl Q9X9X1	ND
4908	580.5	HYPOTHETICAL 23.4 KD PROTEIN.	sptrembl Q03201	Translation, ribosomal structure and biogenesis
4909	580.4	TRANSCRIPTION FACTOR BTF3 (RNA POLYMERASE B TRANSCRIPTION FACTOR 3).	swissprot P20290	ND
4910	580.3	PROBABLE EUKARYOTIC TRANSLATION INITIATION FACTOR 3 RNA-BINDING SUBUNIT (EIF-3 RNA-BINDING SUBUNIT) (EIF3 P33) (TRANSLATION INITIATION FACTOR EIF3, P33 SUBUNIT).	swissprot P78795	Transcription

4911	579.6	AMP DEAMINASE (EC 3.5.4.6) (MYOADENYLATE DEAMINASE).	swissprot P15274	ND
4912	579.6	ACYL CARRIER PROTEIN, MITOCHONDRIAL PRECURSOR (ACP) (NADH-UBIQUINONE OXIDOREDUCTASE 9.6 KD SUBUNIT) (EC 1.6.5.3) (EC 1.6.99.3).	swissprot P11943	ND
4913	579.5	REPRESSIBLE ALKALINE PHOSPHATASE PRECURSOR (EC 3.1.3.1).	swissprot P11491	Inorganic ion transport and metabolism
4914	579.4	SIMILARITY NEAR C-TERMINUS TO UNDULIN EXTRACELLULAR MATRIX GLYCOPROTEIN.	sptrembl Q06682	ND
4915	578.5	AT2G05170 PROTEIN.	tremblnew AAD29055	ND
4916	578.4	YEAST NRD1-LIKE PROTEIN.	tremblnew CAB60701	ND
4917	577.2	PUTATIVE SECRETORY PROTEIN.	sptrembl O74903	ND
4918	575.7	SPORULATION PROTEIN SPS19 (SPORULATION-SPECIFIC PROTEIN SPX19).	swissprot P32573	ND
4919	575.2	UBIQUITIN FUSION DEGRADATION PROTEIN-2.	sptrembl O60009	ND
4920	573.7	COPPER RESISTANCE-ASSOCIATED P-TYPE ATPASE.	tremblnew AAF04593	Inorganic ion transport and metabolism
4921	573.6	A. fumigatus allergen rAsp f8 sequence.	geneseqp W61478	Translation, ribosomal structure and biogenesis
4922	573.6	ALDEHYDE REDUCTASE II.	tremblnew AAF15999	ND
4923	573.3	ACETAMIDASE.	sptrembl O59805	ND
4924	573.1	THIOREDOXIN.	swissprot P34723	Energy production and conversion
4925	571.7	CYSTATHIONINE BETA-LYASE.	tremblnew AAF20155	Amino acid transport and metabolism
4926	570.9	PUTATIVE PHENYLALANYL-TRNA SYNTHETASE BETA CHAIN CYTOPLASMIC (EC 6.1.1.20) (PHENYLALANINE--TRNA LIGASE BETA CHAIN).	sptrembl O42870	ND
4927	570.8	NMT1 PROTEIN HOMOLOG.	swissprot P42882	Inorganic ion transport and metabolism
4928	570.1	ALPHA.ALPHA-TREHALOSE-PHOSPHATE SYNTHASE [UDP-FORMING] 1 (EC 2.4.1.15)	swissprot Q00075	ND

		(TREHALOSE-6-PHOSPHATE SYNTHASE) (UDP-GLUCOSE-GLUCOSEPHOSPHATE GLUCOSYLTRANSFERASE).		
4929	570.1	36.7 KD PROTEIN IN CBR5-NOT3 INTERGENIC REGION.	swissprot P40531	ND
4930	569.4	PROTEIN KINASE INHIBITOR P58.	sptrembl Q13217	ND
4931	569.2	D-ARABINITOL 2-DEHYDROGENASE [RIBULOSE FORMING] (EC 1.1.1.250) (ARDH).	swissprot P43066	ND
4932	569.0	P-CUMIC ALDEHYDE DEHYDROGENASE.	sptrembl Q33455	Energy production and conversion
4933	568.6	CGI-110 PROTEIN.	sptrembl Q9Y3B4	ND
4934	567.7	UBIQUITIN-LIKE PROTEIN.	sptrembl Q14399	ND
4935	567.2	CAMP-INDEPENDENT REGULATORY PROTEIN PAC2.	sptrembl Q10294	ND
4936	566.5	PHOSPHOSERINE AMINOTRANSFERASE (EC 2.6.1.52) (PSAT)	swissprot P33330	Coenzyme metabolism
4937	566.3	MEIOTIC RECOMBINATION PROTEIN REC14.	swissprot Q09150	ND
4938	566.3	C-8 STEROL ISOMERASE (DELTA-8--DELTA-7 STEROL ISOMERASE).	swissprot Q92254	ND
4939	566.2	HYPOTHETICAL 76.3 KD PROTEIN.	sptrembl Q04562	ND
4940	566.1	HYPOTHETICAL 28.3 KD PROTEIN IN PPR1-SNF7 INTERGENIC REGION.	swissprot Q07953	ND
4941	565.9	NADH-CYTOCHROME B5 REDUCTASE PRECURSOR (EC 1.6.2.2) (P34/P32).	swissprot P36060	Coenzyme metabolism
4942	565.8	THREONYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.3) (THREONINE--TRNA LIGASE) (THRRS).	swissprot P26639	Translation, ribosomal structure and biogenesis
4943	565.6	TRANSCRIPTION ELONGATION FACTOR S II (TFIIS).	swissprot P49373	Transcription
4944	565.6	HOMOGENTISATE 1,2-DIOXYGENASE (EC 1.13.11.5).	sptrembl Q9ZRA2	ND
4945	565.0	ASPARAGINE-RICH ZINC FINGER PROTEIN AZF1.	swissprot P41696	ND
4946	564.9	NICOTINATE-NUCLEOTIDE PYROPHOSPHORYLASE [CARBOXYLATING] (EC	swissprot Q15274	Coenzyme metabolism

		2.4.2.19) (QUINOLINATE PHOSPHORIBOSYLTRANSFERASE [DECARBOXYLATING]) (QAPRTASE).		
4947	561.2	FUSCA PROTEIN FUS6.	swissprot P45432	ND
4949	559.0	PHASE SPECIFIC (YPS-3).	sptrembl Q00950	ND
4950	558.6	FISSION YEAST (FRAGMENT).	sptrembl P78791	ND
4951	558.3	PUTATIVE HEAVY METAL TRANSPORT PROTEIN (FRAGMENT).	sptrembl O74869	ND
4952	557.1	HYPOTHETICAL 56.6 KD PROTEIN IN URE2-SSU72 INTERGENIC REGION.	swissprot P53867	ND
4953	556.5	PROBABLE DIMERIC DIHYDRODIOL DEHYDROGENASE.	tremblnew CAB58729	ND
4954	555.8	GAMMA-BUTYROBETAINE,2-OXOGLUTARATE DIOXYGENASE (EC 1.14.11.1) (GAMMA-BUTYROBETAINE HYDROXYLASE) (GAMMA-BBH).	swissprot O75936	ND
4955	555.8	AMINOTRANSFERASE.	sptrembl O94562	Amino acid transport and metabolism
4956	555.0	ANNEXIN XIV.	sptrembl O59907	ND
4957	554.9	NADPH-DEPENDENT BETA-KETOACYL REDUCTASE.	tremblnew AAD53514	ND
4958	554.3	HYPOTHETICAL 92.7 KD PROTEIN.	sptrembl O74334	ND
4960	552.3	HYPOTHETICAL 48.7 KD PROTEIN (FRAGMENT).	tremblnew CAB43225	ND
4961	550.4	ATP SYNTHASE GAMMA CHAIN, MITOCHONDRIAL. PRECURSOR (EC 3.6.1.34).	swissnew P49377	Energy production and conversion
4962	550.3	ACETYL-COA-ACETYLTRANSFERASE (EC 2.3.1.9).	sptrembl Q9Y838	ND
4963	548.4	40S RIBOSOMAL PROTEIN S27.	swissprot O74330	Translation, ribosomal structure and biogenesis
4964	547.6	ORF YDL147W.	sptrembl Q12250	ND
4966	547.3	STEROID MONOOXYGENASE.	sptrembl O50641	Inorganic ion transport and metabolism
4967	546.0	TRANSCRIPTION INITIATION FACTOR TFIIF SMALL SUBUNIT (TRANSCRIPTION FACTOR G 30 KD SUBUNIT) (ANCI PROTEIN).	swissprot P35189	ND

4968	545.5	60S ACIDIC RIBOSOMAL PROTEIN P1 (ALLERGEN CLA H 12) (CLA H XII).	swissprot P50344	ND
4969	545.0	SIMILAR TO MITOCHONDRIAL ADP/ATP CARRIER PROTEIN.	sptrembl Q06497	ND
4970	544.3	KIAA0363 (FRAGMENT).	sptrembl O15069	Transcription
4971	544.1	AMINONITROPHENYL PROPANEDIOL RESISTANCE PROTEIN.	swissprot P32629	ND
4972	543.6	HYPOTHETICAL 29.7 KD PROTEIN.	sptrembl O74529	ND
4973	543.3	HYPOTHETICAL 86.4 KD PROTEIN IN PHO5-VPS15 INTERGENIC REGION.	swissprot P38254	ND
4974	543.3	ORF YOL080C.	sptrembl Q08237	DNA replication, recombination and repair
4975	542.2	PUTATIVE ZUOTIN-LIKE PROTEIN C30D10.01 (FRAGMENT).	sptrembl O14347	Posttranslational modification, protein turnover, chaperones
4976	541.9	HYPOTHETICAL PROTEIN AQ 1575.	swissnew O67517	ND
4977	541.6	H(+)/MONOSACCHARIDE COTRANSPORTER.	sptrembl O13411	ND
4978	540.8	40S RIBOSOMAL PROTEIN S20.	swissprot O74893	Translation, ribosomal structure and biogenesis
4979	539.8	DICARBOXYLIC AMINO ACID PERMEASE.	swissprot P53388	Amino acid transport and metabolism
4980	539.8	C. magnoliae carbonyl reductase.	geneseqp W64777	ND
4981	538.8	PI023 PROTEIN.	sptrembl O13614	ND
4982	538.4	3-KETOACYL-COA THIOLASE, PEROXISOMAL PRECURSOR (EC 2.3.1.16) (BETA- KETOTHIOLASE) (ACETYL-COA ACYLTRANSFERASE) (PEROXISOMAL 3-OXOACYL- COA THIOLASE).	swissprot Q05493	Lipid metabolism
4983	538.0	PROBABLE RIBOSE-PHOSPHATE PYROPHOSPHOKINASE 5 (EC 2.7.6.1) (PHOSPHORIBOSYL PYROPHOSPHATE SYNTHETASE 5).	swissprot Q12265	Nucleotide transport
4984	537.4	MYB-LIKE DNA BINDING PROTEIN FLBD.	sptrembl Q00658	ND
4985	537.2	HYPOTHETICAL 50.8 KD PROTEIN IN PAU2-GLY1 INTERGENIC REGION.	swissprot P32614	ND

4986	536.6	60S RIBOSOMAL PROTEIN L35.	swissprot P17078	Translation, ribosomal structure and biogenesis
4987	534.5	HYPOTHETICAL 57.7 KD PROTEIN.	sptrembl O59714	ND
4988	534.5	CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE (EC 2.7.1.123) (CMPK).	swissprot Q00771	ND
4989	533.4	CYTOCHROME B-245 HEAVY CHAIN (P22 PHAGOCYTE B-CYTOCHROME) (NEUTROPHIL CYTOCHROME B, 91 KD POLYPEPTIDE) (CGD91-PHOX) (GP91-PHOX) (CYTOCHROME B(558) BETA CHAIN) (SUPEROXIDE-GENERATING NADPH OXIDASE HEAVY CHAIN SUBUNIT).	swissprot P04839	ND
4990	532.6	PROBABLE MEMBRANE TRANSPORTER.	tremblnew CAB65616	ND
4991	531.3	MYO-INOSITOL TRANSPORTER 1.	swissnew Q10286	ND
4992	531.0	OPDA-REDUCTASE HOMOLOG.	sptrembl Q9XHD2	Energy production and conversion
4993	529.7	MORPHINE 6-DEHYDROGENASE (EC 1.1.1.218) (NALOXONE REDUCTASE).	swissprot Q02198	ND
4994	528.7	DENTIN PHOSPHORYN (FRAGMENT).	sptrembl O95815	ND
4995	527.1	HYPOTHETICAL 27.5 KD PROTEIN IN SPO1-SIS1 INTERGENIC REGION.	swissprot P53981	ND
4996	527.0	UDP-GALACTOSE TRANSPORTER (GOLGI UDP-GAL TRANSPORTER).	swissprot P87041	ND
4997	526.8	SRP1 PROTEIN.	swissprot Q10193	ND
4998	526.6	MYOSIN-RELATED PROTEIN HOMOLOG MLPA (FRAGMENT).	tremblnew AAF18567	ND
4999	525.6	GCY PROTEIN (EC 1.1.1.-).	swissprot P14065	ND
5000	525.5	PISATIN DEMETHYLASE (EC 1.14.-.-) (CYTOCHROME P450 57A2).	swissprot P38364	ND
5001	525.4	VIRULENCE PROTEIN CAP20.	sptrembl Q00368	ND
5002	525.3	ALLYL ALCOHOL DEHYDROGENASE.	tremblnew BAA89423	ND
5003	525.1	DNA REPLICATION HELICASE DNA2.	swissprot P38859	DNA replication, recombination

				and repair
5004	524.6	HYPOTHETICAL TPR DOMAIN-CONTAINING PROTEIN.	sptrembl O94474	ND
5005	523.1	CLATHRIN-ASSOCIATED ADAPTOR COMPLEX AP-2 MEDIUM CHAIN.	tremblnew AAF14248	ND
5006	522.5	Protein involved in cephalosporin C biosynthesis.	geneseqp W14440	ND
5007	522.4	HYPOTHETICAL 40.3 KD PROTEIN.	sptrembl O74384	ND
5008	522.0	IGE-BINDING PROTEIN (FRAGMENT).	sptrembl O74263	ND
5009	521.5	DNA-DIRECTED RNA POLYMERASE I AND III 14 KDA POLYPEPTIDE.	swissprot Q09177	Transcription
5010	521.4	SIMILAR TO PHOSPHATIDIC ACID PHOSPHATASE.	tremblnew CAB52620	ND
5011	521.3	C5,6 DESATURASE.	sptrembl O93875	ND
5012	520.8	QUINATE PERMEASE (QUINATE TRANSPORTER).	swissprot P11636	ND
5013	520.6	DNAJ RELATED PROTEIN.	sptrembl O94657	Posttranslational modification, protein turnover, chaperones
5014	518.6	BEM46 PROTEIN (FRAGMENT).	swissprot P54069	ND
5015	517.6	CURVED DNA-BINDING PROTEIN (42 KD PROTEIN).	swissprot Q09184	ND
5016	517.2	HYPOTHETICAL 42.5 KD PROTEIN IN TSM1-ARE1 INTERGENIC REGION.	swissprot P25625	ND
5017	516.7	HYPOTHETICAL 13.5 KD PROTEIN C24B11.09 IN CHROMOSOME I.	swissprot Q09896	ND
5018	514.5	6-PHOSPHOGLUCONATE DEHYDROGENASE. DECARBOXYLATING (EC 1.1.1.44)	swissprot O13287	Carbohydrate transport and metabolism
5019	514.1	LYSOPHOSPHOLIPASE.	sptrembl O42881	ND
5020	513.7	D-AMINOPEPTIDASE (EC 3.4.11.19) (D-STEREOSPECIFIC AMINOPEPTIDASE).	sptrembl Q59632	ND
5021	513.7	HYPOTHETICAL 17.1 KD PROTEIN IN SIP3-MRPL30 INTERGENIC REGION.	swissprot P53849	ND
5022	513.7	PUTATIVE CYSTEINE DIOXYGENASE (EC 1.13.11.20) (CDO).	sptrembl Q20893	ND
5023	513.6	26S PROTEASOME REGULATORY COMPLEX SUBUNIT P110 (FRAGMENT).	tremblnew AAF08384	ND
5024	513.1	HYPOTHETICAL 17.7 KD PROTEIN IN RNR3-ARC15	swissprot P40515	ND

		INTERGENIC REGION.		
5025	512.3	1,4-BUTANEDIOL DIACRYLATE ESTERASE.	sptrembl Q9WXD6	ND
5026	511.7	TIJ1.6 PROTEIN.	sptrembl Q9ZPH2	Posttranslational modification, protein turnover, chaperones
5027	511.2	HYPOTHETICAL 40.2 KD PROTEIN IN TAF145-YOR1 INTERGENIC REGION PRECURSOR.	swissprot P53334	ND
5028	511.2	PUTATIVE SUCCINATE DEHYDROGENASE CYTOCHROME B SUBUNIT PRECURSOR.	sptrembl O74882	ND
5029	510.6	BLASTICIDIN-S DEAMINASE (EC 3.5.4.23) (FRAGMENT).	sptrembl P78986	ND
5030	509.9	Peptide transport protein ATPTR2Ap.	geneseqp R84891	ND
5031	509.8	GLYCINE CLEAVAGE SYSTEM H PROTEIN.	sptrembl Q9WY55	Amino acid transport and metabolism
5032	509.4	YEL007C-AP.	sptrembl P89886	ND
5033	509.3	ZINC FINGER PROTEIN.	sptrembl O59811	ND
5034	509.1	HYPOTHETICAL OXIDOREDUCTASE IN MRPL44-MTF1 INTERGENIC REGION (EC 1.-.-.-).	swissprot Q05016	ND
5035	508.9	HYPOTHETICAL 54.7 KD PROTEIN.	sptrembl Q9Y827	ND
5036	508.0	UBIQUITIN CARBOXYL-TERMINAL HYDROLASE ISOZYME L3 (EC 3.1.2.15) (UCH-L3) (UBIQUITIN THIOLESTERASE L3).	swissprot P15374	ND
5037	506.3	HYPOTHETICAL 31.8 KD PROTEIN.	tremblnew CAB52731	ND
5038	506.3	S. lipmanii epimerase.	geneseqp R14187	ND
5039	506.3	HYPOTHETICAL 34.0 KD PROTEIN IN CTF13-YPK2 INTERGENIC REGION.	swissprot Q03161	Carbohydrate transport and metabolism
5040	506.2	Cytosolic glycerol-3-phosphate dehydrogenase encoded by GPD2.	geneseqp Y26167	Energy production and conversion
5041	506.0	RIBOSOMAL PROTEIN L31.	sptrembl Q9XGL4	Translation, ribosomal structure and biogenesis
5042	505.9	HIGH-AFFINITY GLUCOSE TRANSPORTER.	swissprot O74713	ND
5043	505.4	COATOMER ZETA SUBUNIT.	sptrembl O74891	ND
5044	505.3	CARBOXYPEPTIDASE S1 (EC 3.4.16.6).	swissprot P34946	ND
5045	504.9	QUINATE PERMEASE (QUINATE TRANSPORTER).	swissprot P15325	ND

5046	504.0	CYTOCHROME P450 51 (EC 1.14.14.1) (CYPL1) (P450-L1A1) (STEROL 14- ALPHA DEMETHYLASE) (EBURICOL 14-ALPHA-DEMETHYLASE) (P450-14DM).	swissprot Q12664	ND
5047	502.3	Ester hydrolase protein encoded by rec 511 gene.	geneseqp R44509	ND
5048	501.8	C. magnoliae carbonyl reductase.	geneseqp W64777	ND
5049	501.4	HYPOTHETICAL 72.2 KD PROTEIN C12C2.05C IN CHROMOSOME II.	swissprot Q09746	ND
5050	501.0	LOW-AFFINITY FE(II) TRANSPORT PROTEIN.	swissprot P40988	ND
5051	498.7	CHROMOSOME XV READING FRAME ORF YOR197W.	sptrembl Q08601	ND
5052	498.5	HYPOTHETICAL 53.5 KD PROTEIN C1F5.07C IN CHROMOSOME I.	swissprot Q10062	ND
5053	497.6	SIMILAR TO ACETYL-COENZYME A SYNTHETASE. NCBI GI: 1118129.	sptrembl Q21166	ND
5054	497.3	SULFUR METABOLITE REPRESSION CONTROL PROTEIN.	swissprot Q00659	ND
5055	497.1	PUTATIVE MAJOR FACILITATOR FAMILY MULTI-DRUG RESISTANCE PROTEIN.	sptrembl Q94343	ND
5056	496.7	HYPOTHETICAL 24.1 KD PROTEIN.	sptrembl Q94389	ND
5057	496.7	GLUTATHIONE SYNTHETASE LARGE CHAIN (EC 6.3.2.3) (GLUTATHIONE SYNTHASE LARGE CHAIN) (GSH SYNTHETASE LARGE CHAIN) (GSH-S) (PHYTOCHELATIN SYNTHETASE).	swissprot P35669	ND
5058	496.0	CYTOCHROME C OXIDASE POLYPEPTIDE IV PRECURSOR (EC 1.9.3.1).	swissprot P04037	ND
5060	494.8	ALPHA-AMYLASE (EC 3.2.1.1).	tremblnew AAF14264	ND
5061	494.6	PUTATIVE TRANSPORT PROTEIN.	tremblnew CAB52881	ND
5062	494.5	HYPOTHETICAL TRP-ASP REPEATS CONTAINING PROTEIN C29E6.01 IN CHROMOSOME I (FRAGMENT).	swissprot Q09855	ND
5063	494.4	HYPOTHETICAL 46.5 KD	sptrembl Q07730	ND

		PROTEIN.		
5064	494.1	UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX SUBUNIT.	sptrembl O74533	ND
5065	493.9	PUTATIVE OXIDOREDUCTASE BLI-4 PRECURSOR (EC 1.-.-.-).	swissprot Q92247	ND
5066	493.1	HYPOTHETICAL 44.2 KD PROTEIN IN RME1-TFC4 INTERGENIC REGION.	swissprot P53230	ND
5067	492.8	NONHISTONE PROTEIN 6.	tremblnew AAF06350	ND
5068	492.0	ALDEHYDE DEHYDROGENASE.	sptrembl Q55811	Energy production and conversion
5069	491.3	TYROSINASE (EC 1.14.18.1) (MONOPHENOL MONOOXYGENASE).	swissprot Q00234	ND
5070	491.9	HYPOTHETICAL 50.3 KD PROTEIN IN TFA1-PAN3 INTERGENIC REGION.	swissprot P36101	Coenzyme metabolism
5071	491.7	PROBABLE SERINE HYDROXYMETHYLTRANSFERASE, CYTOSOLIC (EC 2.1.2.1) (SERINE METHYLASE) (GLYCINE HYDROXYMETHYLTRANSFERASE) (SHMT).	swissprot Q10104	Amino acid transport and metabolism
5072	491.3	URACIL PHOSPHORIBOSYLTRANSFERASE (EC 2.4.2.9) (UMP PYROPHOSPHORYLASE) (UPRTASE).	swissnew P18562	Nucleotide transport
5073	491.0	CONSERVED PHOSDUCIN-LIKE HYPOTHETICAL PROTEIN.	sptrembl Q9Y7LI	ND
5074	490.8	HYPOTHETICAL 25.9 KD PROTEIN C6C3.07 IN CHROMOSOME I.	swissprot Q10311	ND
5075	490.6	ATP SYNTHASE DELTA CHAIN FAMILY, OLIGOMYCIN SENSITIVITY CONFERRING PROTEIN.	sptrembl O74479	Energy production and conversion
5076	489.8	60S RIBOSOMAL PROTEIN L10, MITOCHONDRIAL PRECURSOR (YML10).	swissprot P36520	Translation, ribosomal structure and biogenesis
5077	488.8	MSF TRANSPORTER.	tremblnew CAA20760	ND
5078	486.8	40S RIBOSOMAL PROTEIN S8.	swissprot O14049	Translation, ribosomal structure and biogenesis
5079	486.2	40S RIBOSOMAL PROTEIN S28 (S33).	swissprot Q10421	Translation, ribosomal structure and

				biogenesis
5080	485.2	49 KDA ZINC FINGER PROTEIN.	sptrembl Q9Z326	ND
5081	485.0	MYOSIN I HEAVY CHAIN.	sptrembl Q00647	ND
5082	484.5	PUTATIVE DEHYDROGENASE.	tremblnew CAB61800	ND
5083	484.4	SIGNAL RECOGNITION PARTICLE 19 KD PROTEIN HOMOLOG.	swissprot P41922	Cell motility and secretion
5084	484.2	SIMILAR TO BOVINE PERIPHERAL-TYPE BENZODIAZEPINE RECEPTOR.	sptrembl O94327	ND
5085	483.7	GLUTATHIONE-DEPENDENT FORMALDEHYDE DEHYDROGENASE (EC 1.2.1.1) (FDH) (FALDH).	swissprot P47734	ND
5086	483.5	KIAA1259 PROTEIN (FRAGMENT).	tremblnew BAA86573	DNA replication, recombination and repair
5087	482.1	HYPOTHETICAL 42.5 KD PROTEIN.	sptrembl O74737	ND
5088	482.1	PUTATIVE FAD SYNTHETASE.	sptrembl O74841	ND
5089	482.0	MUTANT VEA1 PROTEIN.	tremblnew AAD44048	ND
5090	481.8	P21 PROTEIN.	sptrembl Q11118	ND
5091	481.8	278AA LONG HYPOTHETICAL ERYTHROCYTE BAND 7 INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y9Y6	Posttranslational modification, protein turnover, chaperones
5092	481.7	DNA-DIRECTED RNA POLYMERASES I, II, AND III 8.3 KD POLYPEPTIDE (EC 2.7.7.6) (ABC10-BETA).	swissprot O13877	Transcription
5093	480.8	HYPOTHETICAL 45.1 KD PROTEIN C6B12.08 IN CHROMOSOME I.	sptrembl O14213	ND
5094	480.3	TRNA ISOPENTENYLTRANSFERASE (EC 2.5.1.8) (ISOPENTENYL-DIPHOSPHATE: TRNA ISOPENTENYLTRANSFERASE) (IPP TRANSFERASE) (IPPT).	swissprot P07884	Translation, ribosomal structure and biogenesis
5095	479.9	HEXOSE TRANSPORTER.	sptrembl O13311	ND
5096	479.6	HYPOTHETICAL 18.5 KD PROTEIN.	tremblnew CAB61465	ND
5097	478.9	SIMILAR TO POLYADENYLATE-BINDING PROTEIN.	sptrembl Q06106	Transcription
5098	478.7	PUTATIVE CA-CALMODULIN-DEPENDENT SERINE-THREONINE-	sptrembl O94547	ND

		PROTEIN KINASE.		
5099	477.9	MICROSOMAL DIPEPTIDASE PRECURSOR (EC 3.4.13.19) (MDP) (DEHYDROPEPTIDASE-I) (RENAL DIPEPTIDASE) (RDP).	swissprot P31430	ND
5100	477.0	URACIL PHOSPHORIBOSYLTRANSF ERASE (EC 2.4.2.9) (UMP PYROPHOSPHORYLASE) (UPRTASE).	swissnew P93394	ND
5101	476.1	10 KD HEAT SHOCK PROTEIN, MITOCHONDRIAL (HSP10) (10 KD CHAPERONIN).	swissprot O59804	Posttranslational modification, protein turnover, chaperones
5102	475.4	SUR1 PROTEIN.	swissprot P33300	ND
5103	474.9	CHROMOSOME IV READING FRAME ORF YDL128W.	sptrembl Q99385	Inorganic ion transport and metabolism
5104	474.5	NA,K-ATPASE ALPHA-2- SUBUNIT (FRAGMENT).	sptrembl Q9Z1G6	ND
5105	473.9	40S RIBOSOMAL PROTEIN S8.	swissprot O14049	Translation, ribosomal structure and biogenesis
5106	473.1	PUTATIVE NADH- DEPENDENT FLAVIN OXIDOREDUCTASE.	sptrembl O94467	Energy production and conversion
5107	473.1	60S RIBOSOMAL PROTEIN L14-A.	swissprot P36105	Translation, ribosomal structure and biogenesis
5108	472.4	ACTIN-BINDING PROTEIN 134 aa, chain A	pdb 1QPV	ND
5109	472.3	CHOLINE TRANSPORT PROTEIN.	swissprot P19807	Amino acid transport and metabolism
5110	470.8	HYPOTHETICAL 137.8 KD PROTEIN C2F12.05C IN CHROMOSOME II.	sptrembl O14340	ND
5111	470.8	HYPOTHETICAL 98.4 KD PROTEIN C24H6.13 IN CHROMOSOME I.	swissprot Q09766	ND
5112	470.4	CYTOCHROME P450.	sptrembl O13490	ND
5113	470.3	IGE-BINDING PROTEIN (FRAGMENT)	sptrembl O60025	ND
5114	470.3	L-SERINE DEHYDRATASE (EC 4.2.1.13) (L-SERINE DEAMINASE).	swissprot P17324	Amino acid transport and metabolism
5115	470.2	PUTATIVE SNRNP SPLICING FACTOR.	sptrembl O74499	ND
5116	469.8	NADH-UBIQUINONE OXIDOREDUCTASE 9.5 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-9.5KD) (CI-9.5) (UBIQUINONE-	swissprot P42117	ND

		BINDING PROTEIN).		
5117	469.2	HYPOTHETICAL 37.2 KD PROTEIN YOR007C.	sptrembl Q12118	ND
5118	468.6	HT-1080 PROTEIN.	sptrembl O75794	ND
5119	468.5	3-PHYTASE B PRECURSOR (EC 3.1.3.8) (MYO-INOSITOL-HEXAPHOSPHATE 3-PHOSPHOHYDROLASE B) (3 PHYTASE B) (MYO-INOSITOL HEXAKISPHOSPHATE PHOSPHOHYDROLASE B).	swissprot P34754	ND
5120	467.2	GLYCINE-RICH RNA-BINDING PROTEIN (FRAGMENT)	sptrembl Q39105	ND
5121	466.7	HYPOTHETICAL 24.5 KD PROTEIN IN PTA-FOLX INTERGENIC REGION.	swissprot P77526	Posttranslational modification, protein turnover, chaperones
5122	466.2	TRANSFERASE 196 aa	pdb 1UKZ	Nucleotide transport
5123	465.8	HYPOTHETICAL 48.7 KD PROTEIN.	sptrembl O74498	ND
5124	465.4	U6 SNRNA-ASSOCIATED SM-LIKE PROTEIN LSM6.	tremblnew AAD56230	ND
5125	465.4	PUTATIVE DEHYDROGENASE.	sptrembl O88068	ND
5126	464.8	3-OXOACYL-[ACYL-CARRIER-PROTEIN]-SYNTHASE.	sptrembl O94297	Lipid metabolism
5127	464.4	PROFILIN.	swissprot P39825	ND
5128	463.7	HYPOTHETICAL 43.0 KD PROTEIN C8A4.09C IN CHROMOSOME I.	swissprot Q09885	ND
5129	462.9	PUTATIVE G-PROTEIN.	sptrembl O08582	ND
5130	462.4	PUTATIVE SECRETED LIPASE.	tremblnew CAB50950	ND
5131	462.4	FLAVONOID 3',5'-HYDROXYLASE (EC 1.14.-.-) (F3'5'H) (CYTOCHROME P450 75A4).	swissprot Q96581	ND
5132	462.3	B SUBUNIT OF PROPIONYL-COA CARBOXYLASE.	sptrembl P94970	Lipid metabolism
5133	462.1	SUCCINATE-SEMIALDEHYDE DEHYDROGENASE [NADP+] (EC 1.2.1.16) (SSDH).	swissprot P25526	Energy production and conversion
5134	461.6	EXO-POLYGALACTURONASE.	tremblnew AAF05088	ND
5135	461.3	QUINATE PERMEASE (QUINATE TRANSPORTER).	swissprot P15325	ND
5136	461.0	MITOCHONDRIAL RNA SPLICING PROTEIN MSR4.	swissprot P23500	ND
5137	460.8	60S RIBOSOMAL PROTEIN	tremblnew	ND

		L28.	CAA22600	
5138	460.5	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl Q9WZQ7	ND
5139	460.4	CHITIN SYNTHASE 3 (EC 2.4.1.16) (CHITIN-UDP ACETYL-GLUCOSAMINYL TRANSFERASE 3) (CLASS- III CHITIN SYNTHASE 3).	swissprot P30602	ND
5140	459.0	CHROMOSOME XV READING FRAME ORF YOL092W.	sptrembl Q12010	ND
5141	458.9	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew CAB52741	ND
5142	458.8	CALCINEURIN B SUBUNIT (PROTEIN PHOSPHATASE 2B REGULATORY SUBUNIT) (CALCINEURIN REGULATORY SUBUNIT).	swissprot P87072	ND
5143	458.6	A.niger pyruvate kinase.	geneseqp R13247	ND
5144	458.2	CHROMOSOME XV READING FRAME ORF YOL119C.	sptrembl Q08268	ND
5145	456.7	DNA LIGASE I (EC 6.5.1.1) (POLYDEOXYRIBONUCLEO TIDE SYNTHASE [ATP]).	swissprot P37913	ND
5146	456.1	TROPOMYOSIN 2.	swissprot P40414	ND
5147	455.8	60S RIBOSOMAL PROTEIN L34-B.	swissprot P40525	Translation, ribosomal structure and biogenesis
5148	455.6	INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y784	ND
5149	454.5	HYPOTHETICAL 22.0 KD PROTEIN IN FOX3-UBP7 INTERGENIC REGION.	swissprot P40452	ND
5150	454.3	HYPOTHETICAL 86.9 KD PROTEIN (FRAGMENT).	tremblnew CAB55332	ND
5151	454.3	CHROMOSOME XV READING FRAME ORF YOR049C.	sptrembl Q08417	ND
5152	454.0	HYPOTHETICAL 41.6 KD PROTEIN.	sptrembl Q94305	ND
5153	453.3	HYPOTHETICAL 27.9 KD PROTEIN C20F10.10 IN CHROMOSOME II.	sptrembl Q42979	ND
5154	453.0	PUTATIVE MEMBRANE TRANSPORT PROTEIN	sptrembl Q74923	ND
5155	452.5	PIM1 GTPASE PROTEIN.	tremblnew CAB60670	ND
5156	452.2	SIMILAR TO S. CEREVISIAE YHR110P.	sptrembl Q05359	ND
5157	451.4	Human actVA-ORF4-like protein sequence.	geneseqp Y14147	ND
5158	451.1	CSK2B.	tremblnew AAF03911	ND
5159	450.8	26S PROTEASE REGULATORY SUBUNIT 4	tremblnew CAB58406	ND

		HOMOLOG.		
5160	450.5	HYPOTHETICAL 83.7 KD PROTEIN.	sptrembl O13853	ND
5161	450.3	Mortierella alpina cytochrome b5.	geneseqp W22848	ND
5162	450.1	NUCLEAR DISTRIBUTION PROTEIN NUDE.	sptrembl O74689	ND
5163	449.9	60S RIBOSOMAL PROTEIN L2, MITOCHONDRIAL PRECURSOR (YML2) (YMR6).	swissprot P12687	Translation, ribosomal structure and biogenesis
5164	448.7	HYPOTHETICAL 157.7 KD PROTEIN C2F7.16C IN CHROMOSOME I.	swissprot Q09706	ND
5165	448.1	NODULIN PRECURSOR.	sptrembl Q41402	ND
5166	447.5	HYPOTHETICAL 15.3 KD PROTEIN.	tremblnew CAB57336	Posttranslational modification, protein turnover, chaperones
5167	447.1	PROBABLE ATP-DEPENDENT PERMEASE YHL035C.	swissprot P38735	ND
5168	446.6	TRANSCRIPTIONAL REPRESSOR TUP1.	sptrembl O76734	ND
5169	446.3	PUTATIVE TRANSPORTER.	tremblnew CAB63540	ND
5170	445.6	CUTINASE TRANSCRIPTION FACTOR 1 ALPHA.	swissprot P52958	ND
5171	444.9	PUTATIVE DEHYDROGENASE.	sptrembl O88068	ND
5172	444.5	NADH-DEPENDENT FLAVIN OXIDOREDUCTASE, PUTATIVE.	tremblnew AAF11740	ND
5173	444.4	DIMETHYL-ALLYL-TRYPTOPHAN-SYNTHASE.	sptrembl O94204	ND
5174	444.3	PUTATIVE TRANSPORTER YBL042C.	swissprot P38196	Coenzyme metabolism
5175	444.3	HYPOTHETICAL 45.0 KD PROTEIN IN PIS1-CLB2 INTERGENIC REGION.	swissprot Q06489	ND
5176	442.9	RASP F 7 (FRAGMENT).	sptrembl O42799	ND
5177	441.8	HYPOTHETICAL 18.5 KD PROTEIN.	tremblnew CAB11189	ND
5178	441.8	PUTATIVE CELL WALL PROTEIN.	sptrembl O74708	ND
5179	441.2	HYPOTHETICAL 55.5 KD PROTEIN C17A2.05 IN CHROMOSOME I.	sptrembl O13755	Energy production and conversion
5180	440.6	GABA PERMEASE.	sptrembl Q9Y860	ND
5181	440.2	ALCOHOL DEHYDROGENASE I (EC 1.1.1.1).	swissprot P00330	ND
5182	440.2	NADH-UBIQUINONE OXIDOREDUCTASE 29.9 KD SUBUNIT PRECURSOR (EC	swissprot P24919	ND

		1.6.5.3) (EC 1.6.99.3) (COMPLEX I-29.9KD) (CI- 29.9KD).		
5183	440.2	HYPOTHETICAL 15.9 KD PROTEIN.	tremblnew CAB52421	ND
5184	440.0	PUTATIVE SMALL NUCLEAR RIBONUCLEOPROTEIN E.	tremblnew CAB59808	Transcription
5185	439.2	T7I23.15 PROTEIN.	sptrembl O81909	ND
5186	438.8	NADH:UBIQUINONE OXIDOREDUCTASE (NADH DEHYDROGENASE).14 KDA (FRAGMENT).	sptrembl Q01407	ND
5187	438.3	H04M03.4 PROTEIN.	tremblnew AAD12787	Coenzyme metabolism
5188	4363.7	PYRUVATE DECARBOXYLASE.	sptrembl O94185	Coenzyme metabolism
5189	436.4	QUEUINE TRNA- RIBOSYLTRANSFERASE (EC 2.4.2.29) (TRNA- GUANINE TRANSGLYCOSYLASE) (GUANINE INSERTION ENZYME).	swissprot P54578	ND
5190	436.2	DICARBOXYLIC AMINO ACID PERMEASE.	swissprot P53388	Amino acid transport and metabolism
5191	435.9	PEROXISOMAL TARGETING SIGNAL RECEPTOR (PEROXISOMAL PROTEIN PAY32) (PEROXIN-5) (PTS1 RECEPTOR).	swissprot Q99144	ND
5192	435.7	NUCLEAR AND CYTOPLASMIC POLYADENYLATED RNA- BINDING PROTEIN PUB1 (ARS CONSENSUS BINDING PROTEIN ACBP-60) (POLY(U)-BINDING PROTEIN) (POLY URIDYLATE-BINDING PROTEIN).	swissprot P32588	Transcription
5193	435.5	60S RIBOSOMAL PROTEIN L36-A (L39A) (YL39).	swissprot P05745	ND
5194	434.2	URACIL PERMEASE.	swissprot Q10279	ND
5195	433.3	PHOSPHORUS ACQUISITION CONTROLLING PROTEIN.	swissprot P20824	ND
5196	433.0	HYPOTHETICAL 34.2 KD PROTEIN C31F10.07 IN CHROMOSOME II.	sptrembl P87308	ND
5197	431.3	NIPSNAPI PROTEIN (FRAGMENT).	tremblnew CAB56701	ND
5198	431.0	HYPOTHETICAL 23.0 KD PROTEIN C3F10.12C IN CHROMOSOME I.	swissprot Q10186	ND

5199	430.2	CARNITINE/ACYL CARNITINE CARRIER.	sptrembl Q9Y7G4	ND
5200	429.9	RNA-BINDING PROTEIN AXRNP.	sptrembl O93465	ND
5201	429.2	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl O94380	ND
5202	428.5	PUTATIVE 60S RIBOSOMAL PROTEIN L7/L12.	tremblnew CAB60683	Translation, ribosomal structure and biogenesis
5203	428.1	PUTATIVE SNRNP PROTEIN.	tremblnew CAB45810	ND
5204	426.3	ATP SYNTHASE F CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissprot Q06405	ND
5205	426.1	Human adult testis secreted protein ck181_7.	geneseqp W81998	ND
5206	425.3	ORIGIN RECOGNITION COMPLEX SUBUNIT 4- RELATED PROTEIN ORP4P.	sptrembl Q9Y794	ND
5207	424.9	HYDROPHOBIN PRECURSOR.	sptrembl O13503	ND
5208	424.5	MLO3 PROTEIN.	swissnew Q09330	ND
5209	424.2	MITOCHONDRIAL IMPORT RECEPTOR SUBUNIT TOM22 (MITOCHONDRIAL 22 KD OUTER MEMBRANE PROTEIN) (MOM22 PROTEIN) (TRANSLOCASE OF OUTER MEMBRANE 22 KD SUBUNIT).	swissprot Q07335	ND
5210	424.1	Aminopeptidase.	geneseqp W05589	ND
5212	423.4	Ubiquitin-like domain of the yeast protein SMT3.	geneseqp W87987	ND
5213	422.4	PUTATIVE LIPASE.	sptrembl Q9Z360	ND
5214	421.9	ALP11 PROTEIN.	swissprot Q10235	ND
5215	421.7	HYPOTHETICAL 17.1 KD PROTEIN IN SAH1-ME14 INTERGENIC REGION.	swissprot P40030	ND
5216	421.1	ACTIN-LIKE PROTEIN	tremblnew CAB65803	ND
5217	420.9	DEOXYRIBOSE- PHOSPHATE ALDOLASE (EC 4.1.2.4) (PHOSPHODEOXYRIBOALD OLASE) (DEOXYRIBOALDOLASE).	swissprot P44430	Nucleotide transport
5218	420.3	PUTATIVE FRUCTOSE-1,6- BISPHOSPHATASE (EC 3.1.3.11).	tremblnew CAB64834	Carbohydrate transport and metabolism
5219	420.3	DNA REPAIR HELICASE RAD3.	swissprot P06839	DNA replication, recombination and repair
5220	420.2	ARYLSULFATASE (EC 3.1.6.1) (ARYL-SULFATE SULPHOHYDROLASE).	swissprot P51691	ND

5221	420.0	PHOSPHORIBOSYLFORMYLGLYCINAMIDINE SYNTHASE (EC 6.3.5.3) (FGAM SYNTHASE) (FORMYLGLYCINAMIDE RIBOTIDE AMIDOTRANSFERASE) (FGARAT).	swissprot P38972	Nucleotide transport
5222	419.6	ATP-DEPENDENT BILE ACID PERMEASE.	swissprot P32386	ND
5223	419.6	HYPOTHETICAL 61.1 KD PROTEIN C11D3.05 IN CHROMOSOME I.	swissprot Q10084	ND
5224	419.5	GABA PERMEASE.	sptrembl Q9Y860	ND
5225	417.7	Human transmembrane protein, HP01737.	geneseqp Y13942	ND
5226	417.6	MEMBRANE ASSOCIATED PROTEIN SLP-2.	tremblnew AAF09142	ND
5227	416.9	SUPL15H.	tremblnew BAA78781	ND
5228	416.7	PISATIN DEMETHYLASE (EC 1.14.-.-) (CYTOCHROME P450 57A2).	swissprot P38364	ND
5229	416.5	PUTATIVE PROTEIN FARNESYLTRANSFERASE BETA SUBUNIT (EC 2.5.1.-) (CAAX FARNESYLTRANSFERASE BETA SUBUNIT) (RAS PROTEINS PRENYLTRANSFERASE) (FTASE-BETA).	sptrembl O13782	ND
5230	416.0	HYPOTHETICAL 15.4 KD PROTEIN C10F6.16 IN CHROMOSOME I.	sptrembl P79058	ND
5231	413.9	PROBABLE 40S RIBOSOMAL PROTEIN S9, MITOCHONDRIAL PRECURSOR.	swissprot P38120	Translation, ribosomal structure and biogenesis
5232	413.7	CHROMOSOME IV READING FRAME ORF YDL237W.	sptrembl Q07716	ND
5233	412.4	PUTATIVE AROMATIC AMINO ACID AMINOTRANSFERASE C56E4.03 (EC 2.6.1.-).	sptrembl O14192	Amino acid transport and metabolism
5234	412.3	HYPOTHETICAL 143.0 KD PROTEIN C11E3.02C IN CHROMOSOME I.	swissprot O13683	ND
5235	412.3	PUTATIVE GLYCEROL-3-PHOSPHATE DEHYDROGENASE.	tremblnew AAF02807	ND
5236	411.8	P. putida R(-)-mandelate monooxygenase protein.	geneseqp W53916	ND
5237	411.7	PUTATIVE PHOSPHOADENOSINE	swissprot Q10270	Coenzyme metabolism

		PHOSPHOSULFATE REDUCTASE (EC 1.8.99.4) (PAPS REDUCTASE, THIOREDOXIN DEPENDENT) (PADOPS REDUCTASE) (3'- PHOSPHOADENYLYLSULF ATE REDUCTASE).		
5238	411.6	RP42.	tremblnew AAF04863	ND
5239	411.4	CYTOCHROME C OXIDASE ASSEMBLY PROTEIN COX15.	swissprot P40086	Posttranslational modification, protein turnover, chaperones
5240	409.9	N AMINO ACID TRANSPORT SYSTEM PROTEIN (METHYLTRYPTOPHAN RESISTANCE PROTEIN).	swissprot P38680	ND
5241	409.8	INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y786	ND
5242	409.7	CAT5 PROTEIN (UBIQUINONE BIOSYNTHESIS PROTEIN COQ7).	swissprot P41735	ND
5243	409.4	PUTATIVE D-AMINO ACID OXIDASE.	sptrembl Q9Y7N4	ND
5244	409.0	HIGH MOBILITY GROUP- LIKE NUCLEAR PROTEIN 2.	swissprot P32495	Translation, ribosomal structure and biogenesis
5245	408.2	PYRROLINE-5- CARBOXYLATE REDUCTASE (EC 1.5.1.2) (P5CR) (P5C REDUCTASE).	swissprot P22008	ND
5246	408.2	PXP-18.	tremblnew BAA85152	ND
5247	407.9	TRNA ISOPENTENYLTRANSFERA SE.	tremblnew CAB52278	ND
5248	407.6	HYPOTHETICAL 56.2 KD PROTEIN IN ERG8-UBP8 INTERGENIC REGION.	swissprot Q04991	ND
5249	406.1	TIG11.14 PROTEIN.	sptrembl O23024	ND
5250	405.9	PHOSPHOETHANOLAMINE CYTIDYLYLTRANSFERASE.	sptrembl Q99447	ND
5251	405.0	C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC (C1-THF SYNTHASE) [INCLUDES: METHYLENETETRAHYDRO FOLATE DEHYDROGENASE (EC 1.5.1.5); METHENYLTETRAHYDROF OLATE CYCLOHYDROLASE (EC 3.5.4.9); FORMYLTETRAHYDROFOL	swissprot P07245	Coenzyme metabolism

		ATE SYNTHETASE (EC 6.3.4.3)].		
5252	405.0	PYRROLINE-5-CARBOXYLATE REDUCTASE (EC 1.5.1.2) (P5CR) (P5C REDUCTASE).	swissprot Q12740	ND
5253	404.6	HYPOTHETICAL 52.3 KD PROTEIN IN MRPL10-ERG24 INTERGENIC REGION PRECURSOR.	swissprot P53832	ND
5254	404.4	SUGAR TRANSPORTER STL1.	swissprot P39932	ND
5255	404.1	PUTATIVE RHO GDP-DISSOCIATION INHIBITOR (RHO GDI).	sptrembl O14224	ND
5256	403.0	PUTATIVE TRANSPORTER.	tremblnew CAB63540	ND
5257	402.7	DNA-DIRECTED RNA POLYMERASE I 135 KD POLYPEPTIDE (EC 2.7.7.6) (A135) (RNA POLYMERASE I SUBUNIT 2).	swissprot P22138	Transcription
5258	402.1	RIBOSOMAL PROTEIN S30.	sptrembl O14314	ND
5259	400.7	HYPOTHETICAL 56.8 KD PROTEIN IN SCJ1-GUA1 INTERGENIC REGION PRECURSOR.	swissprot Q03655	ND
5260	400.0	SRC HOMOLOG 3 DOMAIN-CONTAINING PROTEIN HIP-55.	tremblnew AAF13701	ND
5261	397.2	TRANSMEMBRANE TRANSPORTER LIZ1P.	sptrembl O43000	ND
5262	397.1	ORNITHINE AMINOTRANSFERASE (EC 2.6.1.13) (ORNITHINE--OXO-ACID AMINOTRANSFERASE).	swissprot Q92413	ND
5263	395.9	UNC-50 RELATED PROTEIN.	sptrembl O55227	ND
5264	395.8	UBIQUITIN FUSION DEGRADATION PROTEIN 1 (UB FUSION PROTEIN 1) (POLYMERASE-INTERACTING PROTEIN 3).	swissprot P53044	ND
5265	395.3	KINESIN-LIKE DNA BINDING PROTEIN.	sptrembl Q14807	ND
5266	395.0	L-A VIRUS GAG PROTEIN N-ACETYLTRANSFERASE (EC 2.3.1.-).	swissprot Q03503	ND
5267	394.4	DICARBOXYLIC AMINO ACID PERMEASE.	swissprot P53388	ND
5268	393.9	KREV-1 PROTEIN.	sptrembl O74112	ND
5269	393.9	Wheat glutathione transferase subunit TaGST1.	geneseqp Y05537	ND
5270	393.2	HYPOTHETICAL 26.6 KD PROTEIN.	sptrembl P75897	ND
5271	393.0	HYPOTHETICAL 85.7 KD	sptrembl P87109	ND

		PROTEIN C20G8.02 IN CHROMOSOME I.		
5272	392.9	ALCOHOL OXIDASE (EC 1.1.3.13) (AOX) (METHANOL OXIDASE) (MOX).	swissprot Q00922	ND
5273	392.8	HYPOTHETICAL 105.9 KD PROTEIN C11E3.11C IN CHROMOSOME I.	sptrembl O13690	ND
5274	391.6	HYPOTHETICAL 13.0 KS PROTEIN.	sptrembl P79082	ND
5275	391.5	MANNITOL 2-DEHYDROGENASE (EC 1.1.1.67) (MDH).	sptrembl O08355	ND
5276	391.4	THIOREDOXIN.	swissprot P29429	ND
5277	391.4	HYPOTHETICAL 59.0 KD PROTEIN C30D11.14 IN CHROMOSOME I.	swissprot Q09911	ND
5278	390.7	YEAST REDUCED VIABILITY UPON STARVATION PROTEIN RVS167 HOMOLOG, SH3 DOMAIN CONTAINING.	sptrembl O74352	ND
5279	390.3	CHOLINE DEHYDROGENASE.	sptrembl Q9X2M2	ND
5280	390.2	HYPOTHETICAL 39.5 KD PROTEIN IN PDXH-SLYB INTERGENIC REGION.	swissprot P77570	ND
5281	390.2	R06A4.4B PROTEIN.	sptrembl O62333	ND
5282	389.8	SIMILAR TO PHOSPHATIDIC ACID PHOSPHATASE.	tremblnew CAB52620	ND
5283	389.7	HYPOTHETICAL 65.9 KD PROTEIN C31A2.12 IN CHROMOSOME I.	swissprot Q09729	ND
5284	389.6	CYTOCHROME C OXIDASE POLYPEPTIDE VI PRECURSOR (EC 1.9.3.1).	swissprot P00427	ND
5285	389.3	PUTATIVE AMINE TRANSPORTER.	sptrembl O74852	ND
5286	389.3	GTP CYCLOHYDROLASE I (EC 3.5.4.16) (GTP-CH-1).	swissprot P51601	Coenzyme metabolism
5287	388.7	HYPOTHETICAL 132.6 KD PROTEIN YPL006W.	sptrembl Q12200	ND
5288	388.6	CHROMOSOME XVI COSMID 9513.	sptrembl Q06839	ND
5289	388.3	ATP10 PROTEIN.	swissprot P18496	ND
5290	387.8	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl O94257	ND
5291	387.8	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
5292	387.5	HYPOTHETICAL 44.7 KD PROTEIN.	sptrembl O13885	ND
5293	387.5	CHOLINE TRANSPORT PROTEIN.	swissprot P19807	Amino acid transport and metabolism
5294	386.7	RASP F 7 (FRAGMENT).	sptrembl O42799	ND

5295	386.3	CURVED DNA-BINDING PROTEIN (42 KD PROTEIN).	swissprot Q09184	ND
5296	385.8	THIOREDOXIN.	swissprot P42115	ND
5297	385.6	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
5298	385.6	CYTOCHROME P450-CC24, MITOCHONDRIAL PRECURSOR (EC 1.14.-.-) (P450- CC24) (VITAMIN D(3) 24-HYDROXYLASE) (1,25-DIHYDROXYVITAMIN D(3) 24- HYDROXYLASE) (24-OHASE).	swissprot Q64441	ND
5299	385.2	ORF YPL152W.	sptrembl Q12461	ND
5300	384.6	CAMP-DEPENDENT PROTEIN KINASE SCH9 (EC 2.7.1.37).	swissprot P11792	Signal transduction mechanisms
5301	384.6	F7F22.17.	tremblnew AAF24531	ND
5302	384.3	SUGAR TRANSPORTER, PUTATIVE.	tremblnew AAF12486	ND
5303	384.0	PROTEIN KINASE SKPIP.	sptrembl O94456	ND
5304	383.6	HYPOTHETICAL 15.0 KD PROTEIN C23C4.09C IN CHROMOSOME I.	swissnew O13929	ND
5305	382.9	AMINOMETHYLTRANSFER ASE PRECURSOR (EC 2.1.2.10) (GLYCINE CLEAVAGE SYSTEM T PROTEIN).	swissprot P48015	Amino acid transport and metabolism
5306	382.3	COLLETOTRICHUM GLOEOSPORIODES NITROGEN STARVATION-INDUCED GLUTAMINE RICH PROTEIN.	sptrembl O43117	ND
5307	382.2	PUTATIVE IMPORTIN BETA-4 SUBUNIT (KARYOPHERIN BETA-4 SUBUNIT).	swissprot O60100	ND
5308	381.6	TRNA LIGASE (EC 6.5.1.3).	swissprot P09880	ND
5309	381.1	PEROXISOMAL MEMBRANE PROTEIN PAS20 (PEROXIN-13).	swissprot P80667	ND
5310	380.9	HYPOTHETICAL 39.0 KD PROTEIN.	tremblnew CAA22566	ND
5312	380.4	CHROMOSOME XV READING FRAME ORF YOL060C.	sptrembl Q12296	ND
5313	380.2	HYPOTHETICAL 65.5 KD PROTEIN.	sptrembl O74441	ND
5314	379.6	FADE13.	sptrembl O86319	Lipid metabolism
5315	379.5	HYPOTHETICAL 74.5 KD PROTEIN C4H3.03C IN CHROMOSOME I.	swissprot Q10211	ND
5316	379.1	PROBABLE	swissprot Q12608	ND

		STERIGMATOCYSTIN BIOSYNTHESIS P450 MONOOXYGENASE STCB (EC 1.14.-.-) (CYTOCHROME P450 62).		
5317	379.1	DJ69E11.3 (YEAST YPR037W AND WORM C02C2.6 PREDICTED PROTEINS LIKE).	sptrembl O75663	ND
5318	379.0	MRNA, PARTIAL CDS, SIMILAR TO HUMAN GA17 PROTEIN (FRAGMENT).	tremblnew BAA31742	ND
5319	378.9	COATOMER COMPLEX COPI DELTA-COP SUBUNIT (FRAGMENT).	tremblnew AAF14250	ND
5320	378.7	PYRROLINE-5-CARBOXYLATE REDUCTASE (EC 1.5.1.2) (P5CR) (P5C REDUCTASE).	swissprot P22008	ND
5321	378.1	HYPOTHETICAL 58.0 KD PROTEIN C1672.03C IN CHROMOSOME III.	swissnew O14057	ND
5322	377.9	ADENYLOSUCCINATE LYASE (EC 4.3.2.2) (ADENYLOSUCCINASE) (ASL).	swissprot Q05911	ND
5323	377.9	SYG1 PROTEIN.	swissprot P40528	ND
5324	377.7	HYPOTHETICAL 31.3 KD PROTEIN.	sptrembl P72926	ND
5325	377.5	PEPTIDE TRANSPORTER PTR2 (PEPTIDE PERMEASE PTR2).	swissprot P32901	ND
5326	377.5	6-HYDROXY-D-NICOTINE OXIDASE (EC 1.5.3.6) (6-HDNO).	swissprot P08159	ND
5327	375.6	KIAA0770 PROTEIN (FRAGMENT).	sptrembl O94869	ND
5328	375.5	CHROMOSOME XII COSMID 8039.	sptrembl Q05924	ND
5329	374.9	PUTATIVE TRANSCRIPTIONAL REGULATION PROTEIN, TRP-ASP REPEAT CONTAINING.	sptrembl O74863	ND
5330	374.2	HYPOTHETICAL 10.4 KD PROTEIN.	sptrembl O43002	ND
5331	373.6	F16M14.11 PROTEIN.	sptrembl O80443	ND
5332	373.2	Human actVA-ORF4-like protein sequence.	geneseqp Y14147	ND
5333	372.8	HYPOTHETICAL 83.8 KD PROTEIN.	tremblnew CAB66097	ND
5334	372.5	HYPOTHETICAL 50.5 KD PROTEIN IN RNA1-RNT1 INTERGENIC REGION.	swissprot Q05031	ND
5335	371.7	POTASSIUM TRANSPORTER.	sptrembl Q9Y7B9	ND
5336	371.6	HYPOTHETICAL 63.9 KD	sptrembl O13899	ND

		PROTEIN C22A12.08C IN CHROMOSOME I.		
5337	370.8	RD PROTEIN.	swissnew P18615	ND
5338	370.6	PUTATIVE CHORISMATE MUTASE/PREPHENATE DEHYDRATASE PHEA.	tremblnew AAF06690	ND
5339	370.2	MULTIDRUG RESISTANCE PROTEIN HOMOLOG 50 (P-GLYCOPROTEIN 50).	swissprot Q00449	ND
5340	369.5	CHOLINE TRANSPORT PROTEIN.	swissprot P19807	Amino acid transport and metabolism
5341	369.0	Humicola lanuginosa lipase type II variant.	geneseqp R22635	ND
5342	368.8	RIBOSOMAL PROTEIN S31 HOMOLOG.	sptrembl O74172	ND
5343	368.1	PUTATIVE ATP-DEPENDENT DNA HELICASE.	sptrembl O94395	ND
5344	367.8	30 KD HEAT SHOCK PROTEIN.	swissprot P40920	ND
5345	367.8	PUTATIVE SYNTAXIN.	tremblnew CAB58411	ND
5346	367.7	60S RIBOSOMAL PROTEIN L32 PRECURSOR	sptrembl O94379	ND
5347	367.7	DNA POLYMERASE ALPHA SUBUNIT B (P86 SUBUNIT).	swissprot P38121	ND
5348	367.5	HYPOTHETICAL 61.3 KD PROTEIN IN PMP2-VAC8 INTERGENIC REGION.	swissprot P39998	ND
5349	367.5	CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR I.	sptrembl O95634	ND
5350	367.1	CHROMOSOME XV READING FRAME ORF YOL119C.	sptrembl Q08268	ND
5351	365.9	HYPOTHETICAL 36.8 KD PROTEIN C26A3.16 IN CHROMOSOME I	swissprot Q10169	ND
5352	365.1	C01B4.6 PROTEIN.	tremblnew AAD14698	ND
5353	364.7	PROBABLE CYTOCHROME C OXIDASE POLYPEPTIDE VIA PRECURSOR (EC 1.9.3.1).	swissprot O74471	ND
5354	3632.3	ALPHA-AMYLASE A PRECURSOR (EC 3.2.1.1) (TAKA-AMYLASE A) (TAA) (1,4-ALPHA-D-GLUCAN GLUCANOHYDROLASE).	swissprot P10529	ND
5355	363.7	Mus musculus Tub Interactor (m TI-3) protein.	geneseqp W59132	Posttranslational modification, protein turnover, chaperones
5356	363.6	PROBABLE SUCCINYL-COA LIGASE [GDP-FORMING] ALPHA-CHAIN.	swissprot O13750	ND

		MITOCHONDRIAL PRECURSOR (EC 6.2.1.4) (SUCCINYL-COA SYNTHETASE, ALPHA CHAIN) (SCS- ALPHA).		
5357	363.5	HYPOTHETICAL 55.5 KD PROTEIN C17A2.05 IN CHROMOSOME I.	sptrembl O13755	ND
5358	362.4	INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y786	ND
5359	361.9	PHO85P,LPH16P.	sptrembl Q02979	ND
5360	361.6	PUTATIVE MITOCHONDRIAL CARRIER C29A3.11C.	sptrembl O59674	ND
5361	361.6	RHO3 PROTEIN.	swissprot Q00245	ND
5362	361.2	ERNE PROTEIN.	tremblnew AAF10238	ND
5363	361.0	NICOTINATE- NUCLEOTIDE PYROPHOSPHORYLASE [CARBOXYLATING] (EC 2.4.2.19) (QUINOLINATE PHOSPHORIBOSYLTRANSF ERASE [DECARBOXYLATING]) (QAPRTASE).	swissprot Q15274	ND
5364	360.9	U1 SMALL NUCLEAR RIBONUCLEOPROTEIN C (U1-C).	swissprot P09234	ND
5365	360.6	HYPOTHETICAL 108.5 KD PROTEIN IN UME3-HDA1 INTERGENIC REGION.	swissprot P53971	ND
5366	360.0	ELONGATION FACTOR 1- GAMMA TYPE 2 (EF-1- GAMMA) (P47).	swissprot Q91375	ND
5367	359.9	HYPOTHETICAL 130.3 KD PROTEIN.	sptrembl O59742	ND
5368	358.2	HYPOTHETICAL 24.7 KD PROTEIN C3A12.04C IN CHROMOSOME I.	swissprot P87120	ND
5369	358.0	PUTATIVE TRANSFERASE.	sptrembl O53185	ND
5370	357.4	60S RIBOSOMAL PROTEIN L38	tremblnew CAB54810	ND
5371	357.1	Aluminium resistance gene ALR2.	geneseqp W07873	ND
5372	356.5	ARYL-ALCOHOL OXIDASE PRECURSOR (EC 1.1.3.7).	sptrembl O94219	ND
5373	3551.3	Aspergillus oryzae protease PepC.	geneseqp W31629	Posttranslational modification, protein turnover, chaperones
5374	355.9	HYPOTHETICAL 35.9 KD PROTEIN C17G6.02C IN CHROMOSOME I.	sptrembl O13780	ND
5375	354.1	HYPOTHETICAL 26.3 KD PROTEIN C3G6.03C IN CHROMOSOME I.	sptrembl O14141	ND

5376	353.8	PAD-1.	sptrembl Q9Y7A8	ND
5377	353.7	GRA-ORF6 PROTEIN.	tremblnew CAA09651	ND
5378	353.2	PUTATIVE STERIGMATOCYSTIN BIOSYNTHESIS DEHYDROGENASE STCV (EC 1.1.1.-).	swissprot Q00727	ND
5379	353.0	HYPOTHETICAL 22.6 KD PROTEIN C3G9.04 IN CHROMOSOME I.	sptrembl O42868	ND
5380	352.9	D-ARABINONO-1,4-LACTONE OXIDASE (EC 1.1.3.24).	sptrembl O93852	ND
5381	352.8	HEAT SHOCK PROTEIN 70.	sptrembl O42808	ND
5382	352.0	PUTATIVE 40S RIBOSOMAL PROTEIN YNR037C.	swissprot P53733	ND
5383	351.2	TRANSLIN.	swissprot P79769	ND
5384	351.0	GPI-ANCHOR TRANSAMIDASE (EC 3.-.-.-).	swissprot P49018	ND
5385	350.9	PUTATIVE ACETYLTRANSFERASE IN HXT11-HXT8 INTERGENIC REGION (EC 2.3.1.-).	swissprot P40892	ND
5386	350.6	THIOESTERASE II.	sptrembl O15261	ND
5387	350.4	COLLETOTRICHUM GLOEOSPORIODES NITROGEN STARVATION-INDUCED GLUTAMINE RICH PROTEIN.	sptrembl O43117	ND
5388	349.9	NADH-UBIQUINONE OXIDOREDUCTASE 17.8 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-17.8KD) (CI-17.8KD).	swissprot P42116	ND
5389	349.7	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
5390	348.7	WD-40 REPEAT PROTEIN.	tremblnew BAA75544	ND
5391	348.6	CYTOCHROME P450 10 (EC 1.14.-.-) (CYPX).	swissprot P48416	ND
5392	347.2	HYPOTHETICAL 16.7 KD PROTEIN IN CDC 5-MVPI INTERGENIC REGION.	swissprot Q03667	ND
5393	347.2	POTASSIUM TRANSPORT PROTEIN, HIGH-AFFINITY.	swissprot P28569	ND
5394	347.2	SIGNAL RECOGNITION PARTICLE 72 KD PROTEIN HOMOLOG (SRP72).	swissprot P38688	ND
5395	347.0	HYPOTHETICAL 49.2 KD PROTEIN.	sptrembl O69515	ND
5396	346.4	FISSION YEAST.	sptrembl P78794	ND
5397	346.3	HYPOTHETICAL 37.0 KD	sptrembl	ND

		PROTEIN (FRAGMENT).	Q9Y3V5	
5398	346.1	HYPOTHETICAL 33.9 KD PROTEIN CY13D12.11.	sptrembl P72043	ND
5399	345.1	CHROMOSOME XV READING FRAME ORF YOR052C.	sptrembl Q08422	ND
5400	344.0	POTENTIAL MEMBRANE PROTEIN.	sptrembl O94006	ND
5401	343.9	NPGAP.	sptrembl Q9Y7C5	ND
5402	343.8	HYPOTHETICAL 26.5 KD PROTEIN.	tremblnew AAF18285	ND
5403	343.4	GABA PERMEASE.	sptrembl Q9Y860	ND
5404	342.8	SIMILAR TO SDH4P.	sptrembl Q06236	ND
5405	342.7	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
5406	342.6	SCD1 PROTEIN.	swissprot P40995	ND
5407	342.5	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
5408	341.9	SRP1 PROTEIN.	swissprot Q10193	ND
5409	341.7	RNA BINDING PROTEIN (FRAGMENT).	sptrembl O60176	ND
5410	340.9	<i>P. membranaefaciens</i> NADH kinase.	geneseqp W22341	ND
5411	340.5	SSU81 PROTEIN (SHO1 OSMOSENSOR).	swissprot P40073	ND
5412	340.0	HYPOTHETICAL 76.7 KD PROTEIN.	sptrembl Q12753	ND
5413	338.2	PUTATIVE PROTEIN TRANSPORT PROTEIN SEC61 GAMMA SUBUNIT.	swissprot Q09827	ND
5414	337.9	ORF YDL161W.	sptrembl Q12518	ND
5415	336.8	MITOCHONDRIAL IMPORT INNER MEMBRANE TRANSLOCASE SUBUNIT TIM17 (MITOCHONDRIAL PROTEIN IMPORT PROTEIN 2) (MITOCHONDRIAL INNER MEMBRANE PROTEIN MIM17).	swissprot P39515	ND
5416	335.8	HYPOTHETICAL 130.3 KD PROTEIN.	sptrembl O59742	ND
5417	335.7	CYTOCHROME P450 ALKANE HYDROXYLASE.	sptrembl Q9Y758	ND
5418	335.1	HYPOTHETICAL 34.3 KD PROTEIN.	tremblnew CAB40775	ND
5419	334.9	PUTATIVE POLYA- BINDING PROTEIN.	sptrembl O94430	ND
5420	334.6	SERINE/THREONINE- PROTEIN KINASE SSP1 (EC 2.7.1.-).	swissprot P50526	ND
5421	334.4	NUCLEAR POLYADENYLATED RNA- BINDING PROTEIN NAB2.	swissprot P32505	ND
5422	334.2	P68 RNA HELICASE.	sptrembl Q9XTP2	ND
5423	334.1	PUTATIVE EXOCYST	sptrembl O74846	ND

		COMPLEX COMPONENT.		
5424	332.2	CHROMOSOME XV READING FRAME ORF YOR359W.	sptrembl Q08831	ND
5425	331.9	PUTATIVE TRANSCRIPTION FACTOR TFIIIB COMPONENT.	sptrembl O94481	ND
5426	331.7	REGULATORY PROTEIN.	sptrembl Q00170	ND
5427	331.0	W02A2.5 PROTEIN.	sptrembl Q9XUB4	ND
5428	329.9	HYPOTHETICAL 46.6 KD PROTEIN.	sptrembl O74477	ND
5429	329.3	CHOLINE TRANSPORT PROTEIN.	swissprot P19807	ND
5430	329.3	GLUCOSAMINE-6- PHOSPHATE DEAMINASE.	tremblnew AAD42233	ND
5431	329.1	Y38C9A.2 PROTEIN.	tremblnew AAD14761	ND
5432	329.1	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew AAF12184	ND
5433	329.1	PUTATIVE D-AMINO ACID OXIDASE.	sptrembl Q9Y7N4	ND
5434	329.0	HYPOTHETICAL 24.4 KD PROTEIN.	sptrembl O86620	ND
5435	328.7	AMINO-ACID PERMEASE.	tremblnew CAB60020	ND
5436	328.2	GIBBERELLIN 20- OXIDASE-ARABIDOPSIS THALIANA (EC 1.14.11.).	tremblnew CAB45519	ND
5437	325.2	OXONONANOATE SYNTHASE.	sptrembl Q9Z6L6	ND
5438	324.8	60S RIBOSOMAL PROTEIN.	sptrembl O74884	ND
5439	323.8	CERCOSPORIN RESISTANCE PROTEIN.	sptrembl Q9Y788	ND
5440	323.5	PUTATIVE TRP-ASP REPEAT PROTEIN.	tremblnew CAB52280	ND
5441	323.1	ALLANTOINASE (EC 3.5.2.5).	swissprot P32375	ND
5442	323.0	QUINATE PERMEASE (QUINATE TRANSPORTER).	swissprot P15325	ND
5443	321.9	SHY1 PROTEIN.	swissprot P53266	ND
5444	321.5	F15K9.5 PROTEIN.	sptrembl Q9ZVT6	ND
5445	320.7	DNA-DIRECTED RNA POLYMERASE II 19 KD POLYPEPTIDE (EC 2.7.7.6) (B16).	swissprot P34087	ND
5446	319.6	N-CARBAMYL-L-AMINO ACID AMIDOHYDROLASE (EC 3.5.1.-).	swissprot Q53389	ND
5447	318.9	SIMILAR TO YEAST SUR1 PROTEIN.	tremblnew CAB55770	ND
5448	318.4	CHROMOSOME XV READING FRAME ORF YOR267C.	sptrembl Q08732	ND
5449	317.1	PUTATIVE MAJOR FACILITATOR FAMILY	sptrembl O94343	ND

		MULTI-DRUG RESISTANCE PROTEIN.		
5450	316.7	F23C8.6 PROTEIN.	tremblnew AAD03134	ND
5451	316.6	SURFEIT LOCUS PROTEIN 4 HOMOLOG.	swissprot O74559	ND
5452	316.6	PUTATIVE TRANSLATION INITIATION FACTOR EIF-2B BETA SUBUNIT.	tremblnew CAB52277	ND
5453	315.7	HYPOTHETICAL 42.6 KD PROTEIN.	tremblnew CAB52800	ND
5454	315.6	VIP1 PROTEIN (P53 ANTIGEN HOMOLOG).	sptrembl P87216	ND
5455	314.2	HYPOTHETICAL 35.7 KD PROTEIN (FRAGMENT).	sptrembl Q9Y3V1	ND
5456	314.2	HIGH AFFINITY COPPER TRANSPORTER.	tremblnew CAB52305	ND
5457	314.1	Collagen-like polymer.	geneseqp W57645	ND
5458	314.1	HYPOTHETICAL 16.4 KD PROTEIN.	sptrembl Q9Z4W2	ND
5459	313.5	ELONGATION FACTOR 3 (FRAGMENT).	sptrembl O42734	ND
5460	313.2	PROTEIN TYROSINE KINASE 9 (A6 PROTEIN TYROSINE KINASE HOMOLOG).	sptrembl O09132	ND
5461	311.9	CELL WALL PROTEIN.	sptrembl Q40336	ND
5462	311.1	DUAL SPECIFICITY PROTEIN PHOSPHATASE 1 (EC 3.1.3.48) (EC 3.1.3.16) (MAP KINASE PHOSPHATASE-1) (MPK-1) (MAP KINASE PHOSPHATASE-1) (FRAGMENT).	sptrembl O42253	ND
5464	311.0	WDR1 PROTEIN.	tremblnew AAD05045	ND
5465	310.9	RIBONUCLEASE H1.	sptrembl O00870	ND
5466	310.8	FRUCTOSYL AMINE.	sptrembl O43029	ND
5467	310.2	PROBABLE ATP-DEPENDENT RNA HELICASE P47 HOMOLOG.	swissprot Q07478	ND
5468	309.5	T25B24.3 PROTEIN.	tremblnew AAD25548	ND
5469	309.2	NON-CLASSICAL EXPORT PROTEIN NCE2.	swissprot Q12207	ND
5470	308.2	HYPOTHETICAL 40.5 KD PROTEIN IN UBP15-GAS1 INTERGENIC REGION PRECURSOR.	swissprot Q04951	ND
5471	306.7	DOPA DECARBOXYLASE ISOFORM 2 (EC 4.1.1.26).	sptrembl O61718	ND
5472	306.6	SUPPRESSOR PROTEIN MPT4 (STM1 PROTEIN) (GU4 NUCLEIC-BINDING PROTEIN 2) (G4P2	swissprot P39015	ND

		PROTEIN).		
5473	306.5	TRANSACTIVATING PROTEIN BRIDGE.	sptrembl Q9WTV5	ND
5474	306.4	Candida albicans KRE9.	geneseq Y24918	ND
5475	306.3	GLYCEROL-3-PHOSPHATE DEHYDROGENASE (NAD(P)+).	sptrembl O94310	ND
5476	306.0	HYPOTHETICAL 76.7 KD PROTEIN IN SPO1-SIS1 INTERGENIC REGION.	swissprot P53983	ND
5477	304.5	PUTATIVE ACYL-COA DEHYDROGENASE.	tremblnew CAB46788	ND
5478	304.4	HYPOTHETICAL 63.2 KD PROTEIN.	sptrembl O59725	ND
5479	304.4	HYPOTHETICAL 26.5 KD PROTEIN.	tremblnew CAB46672	ND
5480	304.2	Aluminium resistance gene ALR2.	geneseq W07873	ND
5481	304.0	HYPOTHETICAL 39.0 KD PROTEIN IN GLNQ-ANSR INTERGENIC REGION.	swissprot P54564	ND
5482	303.9	MYOSIN-2 ISOFORM.	swissprot P19524	ND
5483	303.8	GRPE PROTEIN HOMOLOG PRECURSOR.	swissnew O43047	ND
5484	303.7	ENOYL REDUCTASE.	sptrembl Q9Y7D0	ND
5485	303.5	FISSION YEAST (FRAGMENT).	sptrembl P78815	ND
5486	303.2	HEMOLYSIN.	sptrembl Q00050	ND
5487	303.1	POBIP PROTEIN.	sptrembl O74653	ND
5488	303.1	HYPOTHETICAL 89.0 KD PROTEIN.	sptrembl O43023	ND
5489	302.5	PUTATIVE ADAPTOR PROTEIN.	tremblnew CAB59686	ND
5490	302.4	HYPOTHETICAL 31.5 KD PROTEIN.	sptrembl O14443	ND
5491	302.3	HYPOTHETICAL 19.4 KD PROTEIN IN TSM1-ARE1 INTERGENIC REGION.	swissprot P25626	ND
5492	301.5	HYPOTHETICAL C2H2 ZINC FINGER PROTEIN.	sptrembl Q9Y815	ND
5493	301.5	HYPOTHETICAL 16.1 KD PROTEIN.	sptrembl O74847	ND
5494	300.6	HYDROXYMETHYLGLUTA RYL-COA SYNTHASE (EC 4.1.3.5) (HMG-COA SYNTHASE) (3-HYDROXY- 3-METHYLGLUTARYL COENZYME A SYNTHASE).	swissprot P54874	ND
5495	300.3	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN).	swissprot P13983	ND
5496	2991.7	BETA-GLUCOSIDASE 1 PRECURSOR (EC 3.2.1.21) (GENTIOBIASE)	swissprot P48825	ND

		(CELLOBIASE) (BETA-D-GLUCOSIDE GLUCOHYDROLASE).		
5497	299.9	TRANSMEMBRANE PROTEIN.	tremblnew CAB65007	ND
5498	299.8	HYPOTHETICAL 26.9 KD PROTEIN IN BTN1-PEP8 INTERGENIC REGION.	swissprot P47044	ND
5499	299.7	NONF.	sptrembl Q9XDF2	ND
5500	299.7	PDGF ASSOCIATED PROTEIN.	tremblnew AAF03506	ND
5501	299.7	HYPOTHETICAL 63.9 KD PROTEIN IN IME2-MEF2 INTERGENIC REGION.	swissprot P42948	ND
5502	299.0	PUTATIVE TRANSCRIPTIONAL REGULATOR.	tremblnew CAB54824	ND
5503	299.0	PUTATIVE TRANSFERASE (FRAGMENT).	sptrembl Q9X843	ND
5504	298.7	HYPOTHETICAL 33.9 KD PROTEIN C4C5.03 IN CHROMOSOME I.	swissprot O14166	ND
5505	298.6	HYPOTHETICAL 157.7 KD PROTEIN C2F7.16C IN CHROMOSOME I.	swissprot Q09706	ND
5506	298.6	PUTATIVE DEHYDROGENASE.	sptrembl O53547	ND
5507	298.2	HYPOTHETICAL 48.1 KD PROTEIN IN SEC12-SSK2 INTERGENIC REGION.	swissprot P53729	ND
5508	298.0	HYPOTHETICAL 90.8 KD PROTEIN IN HUL5-SEC27 INTERGENIC REGION.	swissprot P53121	ND
5509	297.8	SIS1 PROTEIN.	sptrembl O13303	ND
5510	297.6	HYPOTHETICAL UBIQUINOL-CYTOCHROME C REDUCTASE COMPONENT.	sptrembl O42932	ND
5511	297.4	CAFFEINE-INDUCED DEATH PROTEIN 1.	sptrembl O13833	ND
5512	297.1	CHROMOSOME XV READING FRAME ORF YOL137W.	sptrembl Q08280	ND
5513	296.7	HYPOTHETICAL 69.9 KD PROTEIN IN MIC1-SRB5 INTERGENIC REGION.	swissprot P53261	ND
5514	296.5	4MES.	sptrembl O13320	ND
5515	296.4	RNA BINDING PROTEIN - PUTATIVE PRE MRNA SPLICING FACTOR.	sptrembl O74919	ND
5516	296.4	CHROMOSOME XV READING FRAME ORF YOR059C.	sptrembl Q08448	ND
5517	2959.7	Aspergillus oryzae protease PepE.	geneseqp W31628	ND
5518	2951.7	ALDEHYDE	swissprot P08157	Energy

		DEHYDROGENASE (EC 1.2.1.3) (ALDDH).		production and conversion
5519	2951.0	TRANSLATION ELONGATION FACTOR 1 ALPHA.	sptrembl Q9Y713	Amino acid transport and metabolism
5520	295.8	NUCLEASE.	sptrembl O60168	ND
5521	295.1	PROTEIN-S ISOPRENYLCYSTEINE O-METHYLTRANSFERASE (EC 2.1.1.100) (ISOPRENYLCYSTEINE CARBOXYLMETHYLTRANSFERASE).	swissprot P32584	ND
5522	2944.2	HEAT SHOCK PROTEIN HSP1 (65 KD IGE-BINDING PROTEIN) (FRAGMENT).	swissprot P40292	Posttranslational modification, protein turnover, chaperones
5523	294.9	SCP160 PROTEIN (PROTEIN HX).	swissprot P06105	ND
5524	294.9	PUTATIVE METHYLTRANSFERASE.	sptrembl O94628	ND
5525	294.8	Saccharomyces cerevisiae nucleolin like protein, NOL1.	geneseqp W10529	ND
5526	294.7	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
5527	294.6	ISOCITRATE DEHYDROGENASE [NADP], MITOCHONDRIAL PRECURSOR (EC 1.1.1.42) (OXALOSUCCINATE DECARBOXYLASE) (IDH) (NADP+-SPECIFIC ICDH) (IDP).	swissprot P79089	ND
5528	294.4		sptrembl O23042	ND
5529	294.4	HYDROXYPROLINE-RICH GLYCOPROTEIN PRECURSOR.	sptrembl Q41719	ND
5530	294.4	HYPOTHETICAL 24.7 KD PROTEIN C5H10.03 IN CHROMOSOME I.	swissprot Q09676	ND
5531	294.3	VESICULAR TRANSPORT PROTEIN BOS1.	swissprot P25385	ND
5532	293.5	HYPOTHETICAL 44.5 KD PROTEIN.	sptrembl O74728	ND
5533	2928.1	PLASMA MEMBRANE H ⁺ ATPASE.	sptrembl O93862	Inorganic ion transport and metabolism
5534	292.9	FATTY ACYL-COA REDUCTASE.	sptrembl P94129	ND
5535	291.8	HYPOTHETICAL 36.4 KD PROTEIN IN SMP1-MBA1 INTERGENIC REGION.	swissprot P38298	ND
5536	290.9	2-OXOGLUTARATE DEHYDROGENASE E1 COMPONENT.	sptrembl O74378	ND
5537	290.7	NORSOLORINIC ACID	swissprot Q00049	ND

		REDUCTASE (EC 1.1.1.-).		
5538	290.0	Amino acid sequence of M. vaccae antigen GV-33.	geneseqp Y14924	ND
5539	2895.1	26S PROTEASE REGULATORY SUBUNIT 6B HOMOLOG.	swissprot P78578	Posttranslational modification, protein turnover, chaperones
5540	289.1	HYPOTHETICAL 34.8 KD PROTEIN C4H3.04C IN CHROMOSOME I.	swissprot Q10212	ND
5541	2881.2	Aspergillus nidulans palmitate-CoA delta-9 desaturase enzyme.	geneseqp Y28844	Lipid metabolism
5542	288.5	TIP120.	sptrembl P97536	ND
5543	288.1	CUT8 PROTEIN.	swissprot P38937	ND
5544	287.8	HYPOTHETICAL 109.7 KD PROTEIN.	sptrembl Q9Y7Q7	ND
5545	287.7	Metal-regulated transporter polypeptide ZRT2.	geneseqp W41169	ND
5546	287.6	HYPOTHETICAL 115.3 KD PROTEIN.	tremblnew CAB63746	ND
5547	287.5	FLAVIN 651 aa, chain B	pdb 1FOH	ND
5548	286.9	HYPOTHETICAL 63.7 KD PROTEIN C16E9.02C IN CHROMOSOME II.	sptrembl O14319	ND
5549	286.9	HYDROXYQUINOL 1,2-DIOXYGENASE.	sptrembl Q9ZAM3	ND
5550	286.7	PHENAZINE BIOSYNTHESIS PROTEIN PHZF.	swissprot Q51792	ND
5551	286.7	ALCOHOL DEHYDROGENASE.	sptrembl O33308	ND
5552	286.5	HYPOTHETICAL 25.4 KD PROTEIN C4G9.14 IN CHROMOSOME I.	swissprot Q10244	ND
5553	286.0	S. cerevisiae uronate dehydrogenase.	geneseqp W29217	ND
5554	2857.0	CYTOCHROME P450 51 (EC 1.14.14.1) (CYPL1) (P450-L1A1) (STEROL 14- ALPHA DEMETHYLASE) (EBURICOL 14-ALPHA-DEMETHYLASE) (P450-14DM).	swissprot Q12664	ND
5555	285.7	HIGH-AFFINITY GLUCOSE TRANSPORTER.	swissprot P49374	ND
5556	285.1	HYPOTHETICAL 191.5 KD PROTEIN IN NSP1-KAR2 INTERGENIC REGION.	swissprot P47054	ND
5557	284.9	C-FACTOR (C SIGNAL).	swissprot P21158	ND
5558	284.6	MITOGEN-ACTIVATED PROTEIN KINASE.	tremblnew AAF12815	ND
5559	284.2	HYPOTHETICAL 11.4 KD PROTEIN.	sptrembl O74837	ND
5560	283.4	CIRCUMSPOROZOITE (CS) PROTEIN (FRAGMENT).	sptrembl Q25648	ND
5561	283.1	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP	tremblnew CAB62280	ND

		PRECURSOR.		
5562	2824.0	HEXOKINASE (EC 2.7.1.1).	sptrembl O93964	ND
5563	282.6	CHROMOSOME XVI READING FRAME ORF YPL263C.	sptrembl Q08979	ND
5564	282.4	PTB-ASSOCIATED SPLICING FACTOR (PSF).	swissnew P23246	ND
5565	282.4	ZINC-FINGER PROTEIN.	sptrembl O60106	ND
5566	282.2	MAJOR FACILITATOR SUPERFAMILY PROTEIN.	sptrembl O74395	ND
5567	282.0	HYPOTHETICAL 31.7 KD PROTEIN.	sptrembl O43125	ND
5568	281.6	EXTENSIN PRECURSOR.	sptrembl Q40768	ND
5569	281.6	PRPD PROTEIN.	swissprot P74840	ND
5570	281.4	PROBABLE DOLICHYL- DIPHOSPHOOLIGOSACCHA RIDE--PROTEIN GLYCOSYLTRANSFERASE EPSILON SUBUNIT (EC 2.4.1.119) (OLIGOSACCHARYL TRANSFERASE EPSILON SUBUNIT) (OLIGOSACCHARYL TRANSFERASE 16 KD SUBUNIT).	swissprot O14238	ND
5571	281.4	GTP CYCLOHYDROLASE I (EC 3.5.4.16) (GTP-CH-I).	swissprot P51601	ND
5572	280.8	HYPOTHETICAL 69.5 KD PROTEIN (FRAGMENT).	tremblnew CAB63721	ND
5573	280.8	PUTATIVE HYDROLASE.	sptrembl Q9WX01	ND
5574	280.5	HYPOTHETICAL 41.3 KD PROTEIN.	sptrembl O42896	ND
5575	280.4	HYPOTHETICAL 91.7 KD PROTEIN.	tremblnew CAB62413	ND
5576	280.3	POLY(A)-SPECIFIC RIBONUCLEASE.	sptrembl O95453	ND
5577	280.3	HYPOTHETICAL 31.0 KD PROTEIN IN GAPI-NAPI INTERGENIC REGION.	swissprot P36136	ND
5578	280.1	LA PROTEIN HOMOLOG (LA RIBONUCLEOPROTEIN) (LA AUTOANTIGEN HOMOLOG).	swissprot P87058	ND
5579	280.1	HYPOTHETICAL 105.9 KD PROTEIN IN AAC3 RFC5 INTERGENIC REGION.	sptrembl O13621	ND
5580	280.0	INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y786	ND
5581	279.8	PROTEOPHOSPHOGLYCAN PRECURSOR (FRAGMENT).	sptrembl Q9Y076	ND
5582	278.7	SW16 PROTEIN. REPRESSION OF SILENT MATING TYPE LOCI.	tremblnew CAB57340	ND
5583	278.3	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl Q9WZQ7	ND

5584	278.1	Amino acid sequence of a human secreted peptide.	geneseqp Y12916	ND
5585	277.7	Mutant YLR087c protein from cold sensitive yeast strain.	geneseqp W36093	ND
5586	277.7	S-ANTIGEN PROTEIN PRECURSOR.	swissprot P09593	ND
5587	277.5	INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y784	ND
5588	277.2	EXTENSIN-LIKE PROTEIN.	tremblnew AAD55980	ND
5589	277.0	HYPOTHETICAL 90.1 KD PROTEIN C6G10.07 IN CHROMOSOME I.	sptrembl O14253	ND
5590	276.9	HYPOTHETICAL 100.1 KD PROTEIN.	sptrembl O43024	ND
5591	276.9	NODULATION PROTEIN G.	swissprot P17611	ND
5592	276.7	CARBAMOYL-PHOSPHATE SYNTHASE.	sptrembl O94313	ND
5593	276.4	LUSTRIN A.	sptrembl O44341	ND
5594	275.9	F56H9.1 PROTEIN.	sptrembl Q20908	ND
5595	275.8	HYPOTHETICAL 35.9 KD PROTEIN.	sptrembl O74947	ND
5596	275.7	S-ADENOSYLMETHIONINE SYNTHETASE (EC 2.5.1.6) (METHIONINE ADENOSYLTRANSFERASE) (ADOMET SYNTHETASE).	swissprot P48466	ND
5597	275.3	PROLINE-RICH PROTEIN MP-2 PRECURSOR.	swissprot P05142	ND
5598	275.2	PUTATIVE CLEAVAGE AND POLYADENYLATION SPECIFICITY FACTOR.	sptrembl O13794	ND
5599	275.1	BILE ACID-INDUCIBLE OPERON PROTEIN F (BAIF-3).	sptrembl O28954	ND
5600	274.8	AUTOPHAGOCYTOSIS PROTEIN AUT1.	swissprot P40344	ND
5601	274.8	DJ1042K10.5 (NOVEL PROTEIN) (FRAGMENT).	sptrembl O95516	ND
5602	274.8	HALOACETATE DEHALOGENASE H-2 (EC 3.8.1.3).	swissnew Q01399	ND
5603	274.6	HYPOTHETICAL 95.2 KD PROTEIN.	sptrembl O43051	ND
5604	274.6	ACTIVATED PROTEIN KINASE C RECEPTOR HOMOLOG TRACK.	sptrembl O61075	ND
5605	274.4	HYPOTHETICAL 30.9 KD PROTEIN K07C11.7 IN CHROMOSOME V.	swissprot Q21268	ND
5606	274.0	40S RIBOSOMAL PROTEIN S7	swissprot O43105	ND
5607	2739.8	GLUCOSAMINE--FRUCTOSE-6-PHOSPHATE AMINOTRANSFERASE [ISOMERIZING] (EC 2.6.1.16) (HEXOSEPHOSPHATE	swissprot P53704	Cell envelope biogenesis, outer membrane

		AMINOTRANSFERASE) (D-FRUCTOSE-6- PHOSPHATE AMIDOTRANSFERASE) (GFAT).		
5608	273.7	PUTATIVE NUCLEOPORIN, NUCLEAR PORE PROTEIN, RANBP BINDING DOMAIN.	tremblnew CAB52154	ND
5609	272.6	HYPOTHETICAL 96.1 KD PROTEIN.	sptrembl Q9Y7N9	ND
5610	272.5	CLATHRIN COAT ASSEMBLY PROTEIN.	sptrembl Q9Y7L6	ND
5611	272.3	HYPOTHETICAL 42.4 KD PROTEIN.	sptrembl O24844	ND
5612	2718.8	Aspergillus sp. recombinant protein-disulfide-isomerase.	geneseqp R69506	Energy production and conversion
5613	271.9	HYPOTHETICAL 14.0 KD PROTEIN IN RPL15B-GCR3 INTERGENIC REGION.	swissprot Q03880	ND
5614	271.8	HYPOTHETICAL 198.1 KD PROTEIN.	sptrembl O23363	ND
5615	271.5	CALCIUM/PROTON EXCHANGER.	sptrembl O59940	ND
5616	271.5	PUTATIVE PHOSPHATIDYLSERINE DECARBOXYLASE.	tremblnew CAB39662	ND
5617	271.4	HYPOTHETICAL 25.3 KD PROTEIN IN TIM23-ARE2 INTERGENIC REGION.	swissprot P53721	ND
5618	271.1	PUTATIVE ACETYLORNITHINE DEACETYLASE.	sptrembl O74916	ND
5619	271.0	HYDROXYQUINOL 1,2-DIOXYGENASE.	tremblnew BAA82713	ND
5620	2708.1	PROBABLE ATP-DEPENDENT TRANSPORTER YER036C.	swissprot P40024	ND
5621	270.3	SPHERULIN 4 PRECURSOR.	swissprot P11113	ND
5622	2692.9	ACTIN.	swissprot O13419	Cell division and chromosome partitioning
5623	269.9	YEST PROTEIN.	sptrembl O31523	ND
5624	269.4	HYPOTHETICAL 70.6 KD LIPOPROTEIN IN FEUA-SIGW INTERGENIC REGION PRECURSOR (ORF1).	swissprot P40406	ND
5625	269.1	HYPOTHETICAL 14.1 KD PROTEIN IN NIF3-CLG1 INTERGENIC REGION.	swissprot P53082	ND
5626	268.6	BCS1 PROTEIN.	swissnew P32839	ND
5627	268.2	MITOCHONDRIAL 40S RIBOSOMAL PROTEIN MRP17.	swissprot P28778	ND
5628	268.0	HYPOTHETICAL 56.6 KD PROTEIN IN URE2-SSU72 INTERGENIC REGION.	swissprot P53867	ND
5629	267.8	60S RIBOSOMAL PROTEIN	swissprot P36528	ND

		L30, MITOCHONDRIAL PRECURSOR (YML30).		
5630	267.6	HYPOTHETICAL 23.1 KD PROTEIN.	sptrembl P95145	ND
5631	267.1	DIHYDROLIPOAMIDE SUCCINYLTRANSFERASE.	tremblnew AAD47296	ND
5632	267.0	POTENTIAL MEMBRANE PROTEIN.	sptrembl O94006	ND
5633	266.4	HYPOTHETICAL 137.7 KD PROTEIN IN UGSI-FABI INTERGENIC REGION.	swissprot P43597	ND
5634	266.3	HUNKI MRNA.	sptrembl O60885	ND
5635	266.0	ASPARTYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.12) (ASPARTATE--TRNA LIGASE) (ASPRS).	swissprot P04802	ND
5636	265.9	MALIC ACID TRANSPORT PROTEIN (MALATE PERMEASE).	swissprot P50537	ND
5637	265.3	HYPOTHETICAL 45.1 KD PROTEIN	sptrembl O30447	ND
5638	265.0	Neurite extending activity protein.	geneseqp Y17863	ND
5639	2644.2	PHOSPHOGLYCERATE KINASE (EC 2.7.2.3).	swissprot P41756	Carbohydrate transport and metabolism
5640	2640.0	NMT1 PROTEIN HOMOLOG.	swissprot P42882	Inorganic ion transport and metabolism
5641	264.6	SALIVARY PROLINE-RICH PROTEIN II-1 (FRAGMENT).	swissprot P81489	ND
5642	264.5	ANKYRIN G119.	sptrembl Q13484	ND
5643	264.0	PHOSPHOSERINE PHOSPHATASE (EC 3.1.3.3) (PSP) (O-PHOSPHOSERINE PHOSPHOHYDROLASE) (PSP).	swissnew P42941	ND
5644	263.8	CHROMOSOME XVI COSMID 9513.	sptrembl Q06810	ND
5645	263.7	SER/THR-RICH PROTEIN T10 IN DGCR REGION.	swissprot P54797	ND
5646	263.3	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN).	swissprot P13983	ND
5647	263.2	CHROMOSOME XVI COSMID 9325.	sptrembl Q06214	ND
5649	2627.8	GLUCOAMYLASE PRECURSOR (EC 3.2.1.3) (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN GLUCOHYDROLASE).	swissprot P36914	ND
5650	262.9	SNARE PROTEIN YKT6.	sptrembl O15498	ND
5651	262.7	PUTATIVE PROGESTERONE-BINDING	sptrembl Q9XFM5	ND

		PROTEIN HOMOLOG.		
5652	262.6	HYPOTHETICAL 39.6 KD PROTEIN.	sptrembl O06179	ND
5653	262.6	EUKARYOTIC TRANSLATION INITIATION FACTOR 2 BETA SUBUNIT (EIF-2-BETA).	swissprot P09064	ND
5654	262.3	HYPOTHETICAL 31.3 KD PROTEIN.	sptrembl P72926	ND
5655	262.1	WUGSC:H_RG054D04.2 PROTEIN (FRAGMENT).	sptrembl O95035	ND
5656	262.1	ACTIVATOR OF HSP70 AND HSP90 CHAPERONES.	tremblnew CAB39910	ND
5657	261.7	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew CAB59799	ND
5658	261.7	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl Q9Y7K8	ND
5659	261.7	U3 SMALL NUCLEOLAR RIBONUCLEOPROTEIN PROTEIN LCP5.	swissnew P40079	ND
5660	261.5	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN).	swissprot P13983	ND
5661	261.4	PROLINE-RICH PROTEIN PRECURSOR.	sptrembl O49201	ND
5662	2603.0	PUTATIVE THIAZOLE SYNTHASE.	tremblnew AAF25444	ND
5663	260.9	UBIQUITIN-CONJUGATING ENZYME E2-24 KD (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN).	swissprot P21734	ND
5664	260.9	HYPOTHETICAL 106.1 KD PROTEIN C4F10.13C IN CHROMOSOME I.	sptrembl O36025	ND
5665	260.8	WBSCR1 ALTERNATIVE SPLICED PRODUCT.	sptrembl Q9WUK3	ND
5666	260.7	HYPOTHETICAL 8.2 KD PROTEIN C26A3.14C IN CHROMOSOME I.	swissprot Q10167	ND
5667	260.0	HYPOTHETICAL 93.5 KD PROTEIN.	sptrembl O59744	ND
5668	259.8	PHOSPHATIDYLETHANOLAMINE METHYLTRANSFERASE.	sptrembl P87301	ND
5669	259.5	HYPOTHETICAL 40.7 KD PROTEIN IN DAK1-ORC1 INTERGENIC REGION.	swissprot Q04651	ND
5670	259.2	HYPOTHETICAL 39.4 KD PROTEIN.	sptrembl Q12449	ND
5671	259.2	ORF N118 (FRAGMENT).	sptrembl Q92363	ND
5672	259.1	PUTATIVE RNA BINDING PROTEIN.	tremblnew CAB53728	ND
5673	2583.2	TUBULIN ALPHA-2 CHAIN.	swissprot P24634	ND

5674	258.5	HYPOTHETICAL 114.3 KD PROTEIN.	sptrembl O74839	ND
5675	258.4	PROLINE-RICH PROTEIN MP-2 PRECURSOR.	swissprot P05142	ND
5676	257.9	C-HORDEIN.	sptrembl Q41210	ND
5677	257.9	PROLINE-RICH SALIVARY PROTEIN (FRAGMENT).	sptrembl Q62106	ND
5678	257.6	Malassezia fungus MF-7 antigenic protein.	geneseqp W29774	ND
5679	256.9	HYPOTHETICAL 22.7 KD PROTEIN.	sptrembl O94723	ND
5680	256.8	PUTATIVE SMC FAMILY PROTEIN.	tremblnew CAB11195	ND
5681	256.7	PUTATIVE ACETYLORNITHINE DEACETYLASE.	sptrembl O74916	ND
5682	256.4	WEB1 PROTEIN.	sptrembl O13637	ND
5683	256.3	INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y784	ND
5684	256.3	C-7 hydroxycephem methyltransferase coupling protein.	geneseqp R92153	ND
5685	256.2	FLGA insert stabilising polypeptide.	geneseqp W79128	ND
5686	256.0	HYPOTHETICAL 34.4 KD PROTEIN IN IDS2-MPI2 INTERGENIC REGION.	swissprot P47008	ND
5687	255.9	GEL1 PROTEIN.	sptrembl O74687	ND
5688	255.6	ALCOHOL DEHYDROGENASE I (EC 1.1.1.1).	swissprot P41747	ND
5689	255.7	HYPOTHETICAL 9.1 KD PROTEIN.	sptrembl O04820	ND
5690	255.5	PUTATIVE PROLINE-RICH PROTEIN.	sptrembl Q9ZW08	ND
5691	255.3	HYPOTHETICAL 14.6 KD PROTEIN.	tremblnew CAB61466	ND
5692	255.1	HYPOTHETICAL 27.8 KD PROTEIN.	tremblnew CAB66105	ND
5693	254.7	ANUCLEATE PRIMARY STERIGMATA PROTEIN.	swissprot Q00083	ND
5694	254.0	SUPEROXIDE DISMUTASE (EC 1.15.1.1).	tremblnew CAB61430	ND
5695	253.2	MANNOSE-1-PHOSPHATE GUANYLTRANSFERASE (EC 2.7.7.13) (MPG1 TRANSFERASE) (ATP-MANNOSE-1-PHOSPHATE GUANYLYLTRANSFERASE)	sptrembl O74624	Cell envelope biogenesis, outer membrane
5696	253.8	PROLINE RICH PROTEIN.	sptrembl O22514	ND
5697	253.5	PROBABLE ATP-DEPENDENT RNA HELICASE DBP3 (HELICASE CA3).	swissprot P20447	ND
5698	252.1	60S RIBOSOMAL PROTEIN L3.	tremblnew AAF15600	Translation, ribosomal

				structure and biogenesis
5699	252.6	HYPOTHETICAL 31.1 KD PROTEIN C1E8.05 IN CHROMSOME II PRECURSOR.	sptrembl O42970	ND
5700	252.5	TGF BETA RECEPTOR ASSOCIATED PROTEIN-1.	sptrembl O60466	ND
5701	252.4	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q41814	ND
5702	252.3	PUTATIVE INTEGRAL MEMBRANE GTPASE ACTIVATING PROTEIN, RABGAP DOMAIN CONTAINING YEAST MIC1 HOMOLOG.	sptrembl O43048	ND
5703	251.7	HYPOTHETICAL 55.1 KD PROTEIN IN FAB1-PES4 INTERGENIC REGION.	swissprot P43601	ND
5704	251.6	HYPOTHETICAL 8.1 KD PROTEIN C3G6.02 IN CHROMOSOME I.	sptrembl O14140	ND
5705	251.6	PUTATIVE ZINC FINGER TRANSCRIPTION FACTOR.	tremblnew AAF15889	ND
5706	250.9	HYPOTHETICAL 21.6 KD PROTEIN C56F8.11 IN CHROMOSOME I.	swissprot Q10259	ND
5707	250.6	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl Q9WZF4	ND
5708	2495.5	ELONGATION FACTOR 2 (EF-2).	swissprot P32324	Translation, ribosomal structure and biogenesis
5709	2493.2	NAD-DEPENDENT FORMATE DEHYDROGENASE (EC 1.2.1.2).	sptrembl Q9Y790	ND
5710	249.9	PUTATIVE SERINE/THREONINE-PROTEIN KINASE PKWA (EC 2.7.1.-).	swissnew P49695	ND
5711	249.7	40S MITOCHONDRIAL RIBOSOMAL PROTEIN.	sptrembl O59772	ND
5712	249.3	HYPOTHETICAL 49.6 KD PROTEIN IN ELM1-PRI2 INTERGENIC REGION.	swissprot P36091	ND
5713	2489.1	SERINE HYDROXYMETHYLTRANSFERASE, CYTOSOLIC (EC 2.1.2.1) (SERINE METHYLASE) (GLYCINE HYDROXYMETHYLTRANSFERASE) (SHMT).	swissprot P34398	Amino acid transport and metabolism
5714	248.4	ZK1307.8 PROTEIN.	sptrembl Q23440	ND
5715	248.3	26S PROTEASOME REGULATORY SUBUNIT NIN1 (NUCLEAR	swissprot P32496	ND

		INTEGRITY PROTEIN 1).		
5716	248.1	EXTENSIN-LIKE PROTEIN.	tremblnew AAD55980	ND
5717	248.0	PUTATIVE NUCLEOPORIN.	tremblnew CAA91133	ND
5718	2473.9	CATALASE B (EC 1.11.1.6).	swissprot Q92405	Inorganic ion transport and metabolism
5719	247.8	HYPOTHETICAL 31.6 KD PROTEIN.	sptrembl Q9Y7Z5	ND
5720	247.6	CHROMOSOME XV READING FRAME ORF YOR320C.	sptrembl Q12096	ND
5721	247.4	HYPOTHETICAL 20.9 KD PROTEIN IN ROX1-SPE3 INTERGENIC REGION.	swissprot Q12425	ND
5722	247.3	COSMID C27A2.	sptrembl Q18238	ND
5723	247.3	FIL1 PROTEIN PRECURSOR.	swissprot P38771	ND
5724	247.1	OXIDOREDUCTASE.	sptrembl O53608	ND
5725	246.9	A-AGGLUTININ ATTACHMENT SUBUNIT PRECURSOR.	swissprot P32323	ND
5726	246.6	P. putida R(-)-mandelate monooxygenase protein.	geneseqp W53916	ND
5727	246.2	382AA LONG HYPOTHETICAL SARCOSINE OXIDASE.	sptrembl O59089	ND
5728	246.1	PUTATIVE TRANSPORTER.	tremblnew CAB63540	ND
5729	245.8	60S RIBOSOMAL PROTEIN L37, MITOCHONDRIAL PRECURSOR (YML37).	swissprot P36532	ND
5730	245.7	PUTATIVE RNA MATURATION PROTEIN.	sptrembl O94689	ND
5731	245.1	MEIOTIC MRNA STABILITY PROTEIN KINASE UME5 (EC 2.7.1.-).	swissprot P39073	ND
5732	245.1	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
5733	244.5	HYPOTHETICAL 41.8 KD PROTEIN.	sptrembl O65023	ND
5734	244.3	HYPOTHETICAL 81.2 KD PROTEIN C3D6.13C IN CHROMOSOME II.	swissprot P87178	ND
5735	244.0	EXTENSIN-LIKE PROTEIN.	tremblnew AAD55980	ND
5736	244.0	REPETITIVE PROLINE- RICH CELL WALL PROTEIN 1.	sptrembl Q01979	ND
5737	243.8	PROTEIN-TYROSINE PHOSPHATASE (EC 3.1.3.48).	sptrembl O94526	ND
5738	243.5	SIMILAR TO HUMAN DIMETHYLANILINE MONOOXYGENASE.	tremblnew BAA88195	ND
5739	2420.7	CATALASE ISOZYME P.	tremblnew AAF01463	Inorganic ion transport and

				metabolism
5740	242.8	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
5741	242.7	F19G10.4 PROTEIN.	sptrembl O23122	ND
5742	242.5	F3L24.19 PROTEIN.	tremblnew AAF14029	ND
5743	242.2	MYCELIAL SURFACE ANTIGEN PRECURSOR.	sptrembl O74249	ND
5744	242.1	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT (EC 2.7.7.6) (RPB1) (FRAGMENT).	swissprot P11414	ND
5745	242.1	PUTATIVE SECRETED PROTEIN	sptrembl O69822	ND
5746	241.7	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
5747	241.4	FISSION YEAST.	sptrembl P78821	ND
5748	241.4	HOMOSERINE DEHYDROGENASE (EC 1.1.1.3) (HDH).	swissnew P31116	ND
5749	241.2	Cryptosporidium parvum GP900 antigen.	geneseqp W48299	ND
5750	241.2	TOXD PROTEIN.	swissprot P54006	ND
5751	241.2	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
5752	241.1	CELL WALL PROTEIN PRECURSOR.	sptrembl Q39005	ND
5753	241.0	HYPOTHETICAL 52.9 KD SERINE-RICH PROTEIN C11G7.01 IN CHROMOSOME I.	swissprot O13695	ND
5754	240.9	TRICHODIENE OXYGENASE (EC 1.14.-.-) (CYTOCHROME P450 58).	swissprot Q12612	ND
5755	240.6	HYPOTHETICAL 27.5 KD PROTEIN.	sptrembl Q03973	ND
5756	240.2	ZINC CLUSTER TRANSCRIPTION FACTOR FCR1P.	sptrembl O93870	ND
5757	240.0	PUTATIVE METHYLTRANSFERASE SLL0829 (EC 2.1.1.-).	swissprot Q55423	ND
5758	239.8	CHOLINE/ETHANOLAMINE KINASE-ALPHA.	tremblnew BAA88154	ND
5759	239.5	BETA-GALACTOSIDASE ALPHA PEPTIDE (FRAGMENT).	sptrembl Q46478	ND
5760	239.4	HYPOTHETICAL HELICASE K12H4.8 IN CHROMOSOME III.	swissprot P34529	ND
5761	239.1	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
5762	2384.6	SPLICEOSOMAL PROTEIN SAP 155 (PUTATIVE	sptrembl O75533	ND

		NUCLEAR PROTEIN).		
5763	237.6	Human follicle stimulating hormone GPR N-terminal sequence.	geneseqp W03627	ND
5764	237.6	GLUCOAMYLASE S1/S2 PRECURSOR (EC 3.2.1.3) (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN GLUCOHYDROLASE).	swissprot P08640	ND
5765	237.4	ANNEXIN VII (SYNEXIN).	swissprot P24639	ND
5766	237.3	HYDROXYLASE.	sptrembl O94115	ND
5767	236.2	PTERIN-4-ALPHA-CARBINOLAMINE DEHYDRATASE (EC 4.2.1.96) (PHS) (4-ALPHA-HYDROXY-TETRAHYDROPTERIN DEHYDRATASE) (PHENYLALANINE HYDROXYLASE-STIMULATING PROTEIN) (PCD).	swissprot P43335	ND
5768	2356.2	TUBULIN BETA-1 CHAIN.	swissprot P10653	ND
5769	2350.7	ELONGATION FACTOR 2 (FRAGMENT).	tremblnew CAB52147	Translation, ribosomal structure and biogenesis
5770	235.7	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
5771	235.0	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q42366	ND
5772	234.9	KINESIN-LIKE PROTEIN KIF2 (FRAGMENT).	sptrembl Q9WV63	ND
5773	233.9	ACYL-COA-BINDING PROTEIN (ACBP) (DIAZEPAM BINDING INHIBITOR) (DBI) (ENDOZEPINE) (EP).	swissprot P07108	ND
5774	233.9	HISTONE H1.	tremblnew AAF16011	ND
5775	233.6	ISOFLAVONE REDUCTASE HOMOLOG IRL (EC 1.3.1.-).	swissprot P52580	ND
5776	233.2	SRC2.	sptrembl O04133	ND
5777	233.2	HYPOTHETICAL 118.4 KD PROTEIN IN BA12-DAL5 INTERGENIC REGION PRECURSOR.	swissprot P47179	ND
5778	233.2	SAFRAMYCIN MX1 SYNTHETASE A.	sptrembl Q50858	ND
5779	233.2	HYPOTHETICAL PROTEIN.	sptrembl Q23692	ND
5780	233.0	PROLINE RICH PROTEIN PRECURSOR.	sptrembl Q43558	ND
5781	232.6	HOL1 PROTEIN.	swissprot P53389	ND
5782	232.5	LONG-CHAIN-FATTY-ACID--COA LIGASE (FADD-	sptrembl O29233	ND

		5).		
5783	232.5	HYPOTHETICAL 31.6 KD PROTEIN.	sptrembl Q9Y7Z5	ND
5784	232.2	HYPOTHETICAL 67.0 KD PROTEIN.	sptrembl O60107	ND
5785	232.2	EXTENSIN CLASS II PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) (HRGP) (HYP2.13) (FRAGMENT).	sptrembl Q09085	ND
5786	231.8	A-AGGLUTININ ATTACHMENT SUBUNIT PRECURSOR.	swissprot P32323	ND
5787	231.8	HYPOTHETICAL 52.3 KD PROTEIN IN FRE2 5'REGION.	swissprot P36032	ND
5788	231.7	PUTATIVE 101.8 KD TRANSCRIPTIONAL REGULATORY PROTEIN IN LAS1-CCPI INTERGENIC REGION.	swissprot P36023	ND
5789	231.5	AUXIN-INDUCED PROTEIN.	sptrembl Q43677	ND
5790	231.5	HYPOTHETICAL 8 6 KD PROTEIN.	sptrembl Q03482	ND
5791	231.5	HYPOTHETICAL 64.2 KD PROTEIN.	sptrembl Q9Y8A1	ND
5792	231.3	PUTATIVE PRE-MRNA SPLICING FACTOR	sptrembl P78814	ND
5793	231.3	MINICHROMOSOME MAINTENANCE PROTEIN MCM7P.	sptrembl O75001	ND
5794	231.1	RNA EXPORT FACTOR GLE1.	swissprot Q12315	ND
5795	230.7	ATPASE STABILIZING FACTOR 15 KD PROTEIN.	swissprot P16965	ND
5796	230.6	MUCIN (FRAGMENT).	sptrembl Q28501	ND
5797	230.6	GIBBERELLIN OXIDASE-LIKE PROTEIN.	tremblnew CAB46041	ND
5798	230.4	PUTATIVE MULTIPLE DRUG RESISTANCE PROTEIN.	sptrembl Q9Y835	ND
5799	230.3	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
5800	230.3	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
5801	230.0	Human lung tumour protein SAL-68 predicted amino acid sequence.	geneseqp Y29561	ND
5802	229.7	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
5803	229.6	ADENYLYL CYCLASE.	tremblnew AAD50121	ND
5804	229.3	HYPOTHETICAL 17.7 KD PROTEIN IN AMD1-RAD52 INTERGENIC REGION.	swissprot Q03712	ND

5805	229.0	UBIQUITIN--PROTEIN LIGASE RSP5 (EC 6.3.2.-).	swissprot P39940	ND
5806	228.9	HYPOTHETICAL 54.9 KD PROTEIN IN CBR5-NOT3 INTERGENIC REGION.	swissprot P40533	ND
5807	228.8	RAB11-LIKE (FRAGMENT).	sptrembl Q94149	ND
5808	228.5	F24J5.4.	tremblnew AAD49970	ND
5809	228.2	ZINC FINGER PROTEIN 1.	swissprot P28875	ND
5810	228.1	CYCLIN ANIA-6B (FRAGMENT).	tremblnew AAF23011	ND
5811	227.6	EXTENSIN (EXT) PRECURSOR.	sptrembl Q40402	ND
5812	227.1	D. immitis ankyrin pDiAnk303 protein.	geneseq W76774	ND
5813	2268.2	ALPHA-GLUCOSIDASE (EC 3.2.1.20) (MALTASE).	swissprot Q02751	Carbohydrate transport and metabolism
5814	2265.0	CHITINASE.	sptrembl Q92222	ND
5815	226.5	RIBOSOMAL PROTEIN L41.	sptrembl Q9Y710	ND
5816	226.2	PUTATIVE MITOCHONDRIAL 40S RIBOSOMAL PROTEIN YNR036C.	swissprot P53732	ND
5817	226.2	PROBABLE COATOMER GAMMA SUBUNIT (GAMMA-COAT PROTEIN) (GAMMA-COP).	swissprot P87140	ND
5818	226.1	TETRATRICOPEPTIDE REPEAT PROTEIN.	sptrembl Q99614	ND
5819	225.8	MICROFILARIAL SHEATH PROTEIN PRECURSOR.	sptrembl Q17242	ND
5820	224.7	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN).	swissprot P13983	ND
5821	224.7	CGI-82 PROTEIN.	sptrembl Q9Y391	ND
5822	224.6	PROTEOPHOSPHOGLYCAN PRECURSOR (FRAGMENT).	sptrembl Q9Y076	ND
5823	224.0	YCR028C-A.	sptrembl O11851	ND
5824	224.0	MEMBRANE GLYCOPROTEIN.	sptrembl O39781	ND
5825	223.9	PRO-RICH.	sptrembl Q84565	ND
5826	223.9	PROLINE RICH PROTEIN.	sptrembl O22514	ND
5827	223.7	KERATIN COMPLEX 2, BASIC. PROTEIN 2 (KERATIN 2 EPIDERMIS).	sptrembl Q61869	ND
5828	223.5	HYPOTHETICAL 41.5 KD PROTEIN.	tremblnew CAB66198	ND
5829	222.9	CYTOCHROME P450 4F3 (EC 1.14.13.30) (CYP1VF3) (1 LUKOTRIENE-B4 OMEGA- HYDROXYLASE) (LEUKOTRIENE-B4 20- MONOOXYGENASE) (CYTOCHROME P450- LTB- OMEGA).	swissnew Q08477	ND

5830	222.5	EXTENSIN-LIKE PROTEIN.	tremblnew AAD55980	ND
5831	222.4	CHROMOSOME XV READING FRAME ORF YOR380W.	sptrembl Q08904	ND
5832	222.3	KIAA0544 PROTEIN (FRAGMENT).	sptrembl O60291	ND
5833	222.2	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
5834	222.2	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
5835	222.2	HEMOLYSIN.	sptrembl Q00050	ND
5836	221.9	PROSTACYCLIN SYNTHASE (EC 5.3.99.4) (PROSTAGLANDIN 12 SYNTHASE).	sptrembl Q62969	ND
5837	221.8	HYPOTHETICAL 22.4 KD PROTEIN.	sptrembl Q9X7Q3	ND
5838	221.5	Cyanovirin-N.	geneseqp W06811	ND
5839	2207.9	CATALASE (EC 1.11.1.6).	sptrembl O14436	Inorganic ion transport and metabolism
5840	220.8	PTB-ASSOCIATED SPLICING FACTOR (PSF).	swissnew P23246	ND
5841	220.3	PUTATIVE TRANSCRIPTIONAL COACTIVATOR.	sptrembl O94301	ND
5842	220.3	C11G6.3 PROTEIN.	sptrembl Q17909	ND
5843	220.3	PUTATIVE CYTOCHROME C OXIDASE POLYPEPTIDE.	sptrembl O94705	ND
5844	220.0	EXTENSIN PRECURSOR (PROLINE-RICH GLYCOPROTEIN).	swissprot P14918	ND
5845	219.9	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN).	swissprot P13983	ND
5846	219.6	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
5847	219.5	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
5848	219.2	MADS-BOX HOMOLOG UMC1.	sptrembl O42725	ND
5849	219.2	Y63D3A.5 PROTEIN.	tremblnew CAB63398	ND
5850	219.1	SPCB.	tremblnew AAD50452	ND
5851	219.0	ZINC FINGER PROTEIN.	sptrembl Q00069	ND
5852	2184.1	Urate oxidase encoded by A.flavus-derived cDNA clone 9C.	geneseqp R10222	ND
5853	218.7	HYPOTHETICAL 49.5 KD PROTEIN IN UBP3-PET122 INTERGENIC REGION.	swissprot P10356	ND
5854	218.7	PUTATIVE GALACTINOL SYNTHASE (EC 2.4.1.123).	sptrembl Q9XGG4	ND
5855	218.5	ALCOHOL DEHYDROGENASE II (EC 1.1.1.1) (ADH II).	swissprot P54202	ND

5856	218.5	PROLINE RICH PROTEIN.	sptrembl O22514	ND
5857	218.2	DEHYDROGENASE.	sptrembl O34788	ND
5858	217.6	PROBABLE PROTEIN-TYROSINE PHOSPHATASE CDC14 (EC 3.1.3.48).	swissprot Q00684	ND
5859	217.3	HYPOTHETICAL 118.4 KD PROTEIN IN BAT2-DAL5 INTERGENIC REGION PRECURSOR.	swissprot P47179	ND
5860	217.1	HYPOTHETICAL 58.8 KD PROTEIN IN GLK1-SRO9 INTERGENIC REGION.	swissprot P25568	ND
5861	2168.3	SPINDLE ASSEMBLY CHECKPOINT PROTEIN SLDB	sptrembl O59902	ND
5862	216.0	FATTY ACID AMIDE HYDROLASE.	tremblnew BAA86917	ND
5863	2159.5	POLYUBIQUITIN.	sptrembl O74295	ND
5864	2156.3	NADH-UBIQUINONE OXIDOREDUCTASE 40 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-40KD) (CI-40KD).	swissprot P25284	ND
5865	215.9	MITOCHONDRIAL NUCLEASE (EC 3.1.30.-).	swissprot P08466	ND
5866	215.6	HYPOTHETICAL 49.5 KD PROTEIN.	tremblnew AAD51406	ND
5867	215.4	HYPOTHETICAL PROTEIN C30B4.01C IN CHROMOSOME II (FRAGMENT).	sptrembl P87179	ND
5868	2148.5	ENOLASE (EC 4.2.1.11).	tremblnew BAA23760	Carbohydrate transport and metabolism
5869	214.7	COLLETOTRICHUM GLOEOSPORIODES NITROGEN STARVATION-INDUCED GLUTAMINE RICH PROTEIN.	sptrembl O43117	ND
5870	214.6	HYPOTHETICAL RYANODINE RECEPTOR DOMAIN CONTAINING PROTEIN.	sptrembl O74497	ND
5871	214.1	KIAA0122 PROTEIN (FRAGMENT).	sptrembl Q14136	ND
5872	214.1	NEUROFILAMENT-M SUBUNIT (FRAGMENT).	sptrembl O77788	ND
5873	214.0	TEMPERATURE-DEPENDENT PROTEIN BYSL.	sptrembl Q00300	ND
5874	214.0	D. immitis ankyrin pDiAnk348 protein.	geneseqp W76775	ND
5875	213.9	HYPOTHETICAL 61.8 KD PROTEIN IN KGD1-SIM1 INTERGENIC REGION.	swissprot P40475	ND
5876	213.7	MEMBRANE	sptrembl O39782	ND

		GLYCOPROTEIN.		
5877	213.4	HYDROXYPROLINE-RICH GLYCOPROTEIN PRECURSOR.	sptrembl Q41719	ND
5878	212.8	REGULATORY PROTEIN E2.	swissprot P50766	ND
5879	212.7	HYPOTHETICAL 10.3 KD PROTEIN.	tremblnew CAB55848	ND
5880	212.4	EATRO 164 KINETOPLAST (CR4).	sptrembl Q33564	ND
5881	212.4	PUTATIVE HYDROLASE.	tremblnew CAB61556	ND
5882	212.2	CHITIN SYNTHASE 1 (EC 2.4.1.16) (CHITIN-UDP ACETYL-GLUCOSAMINYL TRANSFERASE 1) (CLASS-II CHITIN SYNTHASE 1).	swissprot P30600	ND
5883	211.9	EG:BACR37P7.3 PROTEIN.	tremblnew CAB65851	ND
5884	211.8	PUTATIVE NICOTINATE PHOSPHORIBOSYLTRANSF ERASE.	tremblnew CAB62416	ND
5885	211.3	ATP-DEPENDENT BILE ACID PERMEASE.	swissprot P32386	ND
5886	211.3	GLUCOAMYLASE S1/S2 PRECURSOR (EC 3.2.1.3) (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN GLUCOHYDROLASE).	swissprot P08640	ND
5887	211.1	HYPOTHETICAL 50.9 KD PROTEIN.	sptrembl O94548	ND
5888	211.0	HYPOTHETICAL 29.3 KD PROTEIN (ORF92).	swissprot O10341	ND
5890	2106.6	METHYLMALONATE- SEMIALDEHYDE DEHYDROGENASE [ACYLATING] PRECURSOR (EC 1.2.1.27) (MMSDH).	swissprot Q02253	Energy production and conversion
5891	2102.8	PROBABLE INOSINE-5'- MONOPHOSPHATE DEHYDROGENASE (EC 1.1.1.205) (IMP DEHYDROGENASE) (IMPDH) (IMPD).	sptrembl O14344	ND
5892	210.9	Truncated sec71p allele protein sequence.	geneseqp Y39942	ND
5893	210.6	HYPOTHETICAL 56.3 KD PROTEIN IN ARO3-KRS1 INTERGENIC REGION.	swissprot P28817	ND
5894	210.2	YMF1 PROTEIN.	sptrembl O31767	ND
5895	210.0	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
5896	210.0	Cyanovirin-N protein sequence.	geneseqp Y39909	ND
5897	2094.5	A. niger PacC zinc finger DNA	geneseqp Y08483	ND

		binding domain.		
5898	209.5	PUTATIVE ACETYLORNITHINE DEACETYLASE.	sptrembl O74916	ND
5899	209.4	CONIDIATION-SPECIFIC PROTEIN 8.	swissprot P10169	ND
5900	209.4	GASTRIC MUCIN (FRAGMENT).	sptrembl Q29071	ND
5901	209.4	HYPOTHETICAL 26.9 KD PROTEIN IN YHB1-PFK1 INTERGENIC REGION.	swissprot P50087	ND
5902	209.3	PUTATIVE PROLINE-RICH CELL WALL PROTEIN.	sptrembl O82327	ND
5903	209.0	PROBABLE PROTEIN KINASE C20G4.03C (EC 2.7.1.-).	sptrembl O13889	ND
5904	209.0	MAJOR PRION PROTEIN 1 PRECURSOR (PRP) (MAJOR SCRAPIE-ASSOCIATED FIBRIL PROTEIN 1).	swissprot P40242	ND
5905	208.5	Mutant <i>Aspergillus oryzae</i> DEBY932 rescued locus.	geneseqp W37992	ND
5906	2076.7	26S PROTEASE REGULATORY SUBUNIT 7 HOMOLOG.	tremblnew CAA16915	Posttranslational modification, protein turnover, chaperones
5907	2076.6	NIDULANS, CPA-LIKE (FRAGMENT).	sptrembl O42806	Nucleotide transport
5908	207.6	CHROMOSOME XVI READING FRAME ORF YPL233W.	sptrembl Q12143	ND
5909	207.4	HYPOTHETICAL 30.8 KD PROTEIN IN SPR6-RPL23B INTERGENIC REGION.	swissprot P40072	ND
5910	207.3	EXTENSIN CLASS I PROTEIN PRECURSOR (EXTENSIN-LIKE PROTEIN).	sptrembl Q41707	ND
5911	207.2	CYSTATHIONINE BETA-SYNTHASE (EC 4.2.1.22) (SERINE SULFHYDRASE) (BETA-THIONASE).	swissprot P46794	ND
5912	206.9	HYPOTHETICAL 24.4 KD PROTEIN.	sptrembl O86620	ND
5913	206.6	F24J5.8 PROTEIN.	tremblnew AAD49974	ND
5914	206.5	(VSP-3) PRECURSOR.	sptrembl Q39620	ND
5915	206.3	Cationic peptide Bac7	geneseqp W66400	ND
5916	205.7	HYPOTHETICAL 46.7 KD PROTEIN (FRAGMENT).	sptrembl O42840	ND
5917	205.6	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
5918	205.6	SYNTHASE OF THE TYPE 3 PNEUMOCOCCAL CAPSULAR POLYSACCHARIDE.	sptrembl P72520	ND
5919	205.5	HYPOTHETICAL 15.6 KD PROTEIN C29B12.13 IN	sptrembl O14034	ND

		CHROMOSOME I.		
5921	2041.4	DNA-DEPENDENT RNA POLYMERASE II RPB140 (FRAGMENT).	tremblnew AAF19066	Transcription
5922	204.9	HYPOTHETICAL 47.0 KD PROTEIN C23H3.03C IN CHROMOSOME I.	sptrembl O42857	ND
5923	204.7	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
5924	204.7	INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y784	ND
5925	204.6	TOL.	sptrembl O93882	ND
5926	204.2	COSMID C33G8.	sptrembl Q18401	ND
5927	204.1	RHO-LIKE PROTEIN C16A10.04.	sptrembl P87296	ND
5928	203.9	C35E7.9 PROTEIN.	sptrembl O61765	ND
5929	203.6	PROBABLE MANNOSYLTRANSFERASE.	sptrembl O94565	ND
5930	203.2	HYPOTHETICAL 45.7 KD PROTEIN IN RPS3-PSD1 INTERGENIC REGION.	swissprot P53883	ND
5931	203.1	TRANSCRIPTIONAL FACTOR SWI5.	swissprot P08153	ND
5932	203.1	PUTATIVE ATP SYNTHASE F CHAIN, MITOCHONDRIAL PRECURSOR.	sptrembl O94377	ND
5933	2025.1	FIMBRIN (ABP67).	swissprot P32599	ND
5934	202.8	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
5935	202.7	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN).	swissprot P13983	ND
5936	202.7	CLONING VECTOR PZERO-2T.	sptrembl O53022	ND
5937	202.4	60S RIBOSOMAL PROTEIN L37A (FRAGMENT).	swissprot O17307	ND
5938	202.2	NUCLEAR PROTEIN SDK3 (FRAGMENT).	sptrembl O60899	ND
5939	202.2	C12D12.1 PROTEIN.	sptrembl Q17921	ND
5940	202.1	RNA BINDING PROTEIN (FRAGMENT).	tremblnew BAA83717	ND
5941	202.0	CHROMOSOME XV READING FRAME ORF YOR306C.	sptrembl Q08777	ND
5942	201.5	STEROL-C-METHYLTRANSFERASE.	sptrembl P74388	ND
5943	201.2	SALIVARY PROLINE-RICH PROTEIN PRECURSOR (CLONES CP3, CP4 AND CP5) [CONTAINS. BASIC PEPTIDE IB-6; PEPTIDE P-H].	swissprot P04280	ND
5944	201.2	Banana ripening fruit Gluc. translated polypeptide.	geneseqp Y05839	ND
5945	201.1	DNA-DIRECTED RNA	swissprot P11414	ND

		POLYMERASE II LARGEST SUBUNIT (EC 2.7.7.6) (RPB1) (FRAGMENT).		
5946	201.0	GLYCERALDEHYDE-3-PHOSPHATE DEHYDOGENAE (FRAGMENT).	tremblnew CAB63214	ND
5947	200.7	HYPOTHETICAL 26.5 KD PROTEIN IN FUS2-RNH1 INTERGENIC REGION.	swissprot Q05024	ND
5948	200.7	K09A9.6 PROTEIN.	sptrembl Q93178	ND
5949	200.6	NITRATE REDUCTASE (EC 1.6.6.1) (NR).	swissprot P36841	ND
5950	200.6	HYPOTHETICAL PROTEIN (FRAGMENT).	sptrembl Q12742	ND
5951	200.5	PROLINE-RICH PROTEIN.	sptrembl Q64306	ND
5952	200.5	HYPOTHETICAL 57.5 KD PROTEIN IN VMA7-RPS25A INTERGENIC REGION.	swissprot P53214	ND
5953	200.4	RNA-BINDING PROTEIN FUS/TLS.	swissprot P35637	ND
5954	200.4	HYPOTHETICAL PROTEIN MJ1187.	swissprot Q58588	ND
5955	200.3	ADENYLYL CYCLASE.	tremblnew AAD50121	ND
5956	200.1	HYPOTHETICAL PROTEIN MJ0301.	swissprot Q57749	ND
5957	200.1	COMPLEX (DNA-BINDING PROTEIN/DNA) 155 aa, chain A	pdb 2GL1	ND
5958	1996.1	CHITIN SYNTHASE D (EC 2.4.1.16) (CHITIN-UDP ACETYL-GLUCOSAMINYL TRANSFERASE) (CLASS-V CHITIN SYNTHASE).	sptrembl O13281	ND
5959	199.8	HYPOTHETICAL 41.6 KD PROTEIN (FRAGMENT).	sptrembl O94558	ND
5960	199.8	Plasmid pRZTL1, Tetracycline resistance protein.	geneseq Y42545	ND
5961	199.7	HYPOTHETICAL 34.7 KD PROTEIN IN RHO3-HIS5 INTERGENIC REGION.	swissprot P40476	ND
5962	199.5	WSC4 HOMOLOGUE.	sptrembl Q9Y849	ND
5963	199.5	NUCLEOLIN (PROTEIN C23).	swissprot P19338	ND
5964	199.5	RNA BINDING PROTEIN (FRAGMENT).	tremblnew BAA83717	ND
5965	199.1	SIMILARITY TO COLLAGENS.	sptrembl O02123	ND
5966	199.0	COS46.3.	sptrembl P91589	ND
5967	199.0	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
5968	199.0	HYPOTHETICAL PROTEIN (FRAGMENT).	tremblnew BAA87194	ND
5969	1986.0	ARGINASE (EC 3.5.3.1).	swissprot Q12611	Amino acid transport and metabolism
5970	1985.6	FATTY ACID SYNTHASE.	sptrembl P78616	ND

		BETA SUBUNIT.		
5971	198.9	DNA BINDING PROTEIN NSDD.	sptrembl Q92226	ND
5972	198.8	HYPOTHETICAL 40.3 KD PROTEIN.	sptrembl O69481	ND
5973	198.8	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q41814	ND
5974	198.5	CTR9 PROTEIN.	swissprot P89105	ND
5975	198.1	F32D1.2 PROTEIN.	sptrembl O16298	ND
5976	198.0	PLENTY-OF-PROLINES-101.	sptrembl O70495	ND
5977	1978.8	GLUTAMINE SYNTHETASE (EC 6.3.1.2) (GLUTAMATE--AMMONIA LIGASE).	swissprot Q12613	Amino acid transport and metabolism
5978	197.9	TRANSLATION INITIATION FACTOR IF-3.	swissnew O67653	ND
5979	197.8	K02F3.4 PROTEIN.	tremblnew AAA50709	ND
5980	197.8	HYPOTHETICAL 45.6 KD PROTEIN C29A3.03C IN CHROMOSOME II.	sptrembl O59668	ND
5981	1965.3	MITOCHONDRIAL PROCESSING PEPTIDASE BETA SUBUNIT PRECURSOR (EC 3.4.24.64) (BETA-MPP) (UBIQUINOL-CYTOCHROME C REDUCTASE COMPLEX CORE PROTEIN I) (EC 1.10.2.2).	swissprot P11913	ND
5982	196.8	HYPOTHETICAL 75.4 KD PROTEIN.	tremblnew AAF04882	ND
5983	196.6	LONGEVITY-ASSURANCE PROTEIN 1 (LONGEVITY ASSURANCE FACTOR 1).	swissprot P78970	ND
5984	196.4	YLR391W-AP.	sptrembl O13547	ND
5985	1958.9	NAD(+)-ISOCITRATE DEHYDROGENASE SUBUNIT I PRECURSOR.	sptrembl O13302	Amino acid transport and metabolism
5986	1958.6	HEAT SHOCK PROTEIN 70.	sptrembl O93866	Posttranslational modification, protein turnover, chaperones
5987	195.8	F4P13.11 PROTEIN.	tremblnew AAF01541	ND
5988	195.6	CHROMOSOME XII COSMID 8003.	sptrembl Q05874	ND
5989	195.6	U86.	tremblnew AAD49674	ND
5990	195.6	ZP2 (CLONE C692).	sptrembl Q90354	ND
5991	195.5	SORTING NEXIN 8.	sptrembl Q9Y5X2	ND
5992	195.5	HYPOTHETICAL 23.9 KD PROTEIN IN COQ1-FLR1 INTERGENIC REGION.	swissprot P38212	ND
5993	195.2	MUCIN.	sptrembl Q63549	ND
5994	195.2	PROTEASE B INHIBITORS 2 AND 1 (PROTEINASE	swissprot P01095	ND

		INHIBITOR I(B)2).		
5995	195.2	F21E10.7 PROTEIN.	sptrembl O65245	ND
5996	195.2	NUCLEOLIN (PROTEIN C23).	swissprot P08199	ND
5997	195.0	C. albicans antigenic protein 3.	geneseqp Y06927	ND
5998	1946.7	ADP,ATP CARRIER PROTEIN (ADP/ATP TRANSLOCASE) (ADENINE NUCLEOTIDE TRANSLOCATOR) (ANT).	swissprot P02723	ND
6000	194.8	HYPOTHETICAL 71.2 KD MEMBRANE PROTEIN C17G6.01 IN CHROMOSOME I.	sptrembl O13779	ND
6001	194.7	3-OXOACYL-[ACYL-CARRIER-PROTEIN]-REDUCTASE	sptrembl O42774	ND
6002	194.7	SEX DETERMINATION PROTEIN TASSELSEED 2.	swissprot P50160	ND
6003	194.1	EXTENSIN CLASS II PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) (HRGP) (TOML-4).	sptrembl Q09084	ND
6004	194.1	(VSP-3) PRECURSOR.	sptrembl Q39620	ND
6005	194.0	NADH OXIDASE.	sptrembl Q9WYL1	ND
6006	1934.3	HOMOACONITASE PRECURSOR (EC 4.2.1.36) (HOMOACONITATE HYDRATASE).	swissprot Q92412	Energy production and conversion
6007	193.9	HYPOTHETICAL 25.3 KD PROTEIN C2C4.09 IN CHROMOSOME I.	sptrembl O14042	ND
6008	193.9	SPORE COAT PROTEIN SP96.	swissprot P14328	ND
6009	193.8	NADH-UBIQUINONE OXIDOREDUCTASE CHAIN 5 (EC 1.6.5.3).	swissprot P04540	ND
6010	193.8	H14E04.2A PROTEIN.	tremblnew AAD12809	ND
6011	193.8	MUCIN-LIKE PROTEIN.	sptrembl O77242	ND
6012	193.8	WD REPEAT PROTEIN.	tremblnew CAB54817	ND
6013	193.7	HYPOTHETICAL 46.2 KD PROTEIN.	tremblnew CAB36521	ND
6014	193.7	WSC4 HOMOLOGUE.	sptrembl Q9Y849	ND
6015	193.6	LATENT NUCLEAR ANTIGEN.	sptrembl Q9WRM2	ND
6016	193.5	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
6017	193.3	HYPOTHETICAL 43.5 KD PROTEIN IN RPB9-ALG2 INTERGENIC REGION.	swissprot P53164	ND
6018	193.1	EYELID.	sptrembl O61603	ND
6019	193.0	HYPOTHETICAL 72.4 KD	swissprot P40053	ND

		PROTEIN IN PTP3-ILV1 INTERGENIC REGION.		
6020	1920.0	HOMOGENTISATE 1,2-DIOXYGENASE (EC 1.13.11.5) (HOMOGENTISICASE) (HOMOGENTISATE OXYGENASE) (HOMOGENTISIC ACID OXIDASE).	swissprot Q00667	ND
6021	192.9	HYPOTHETICAL 45.2 KD PROTEIN.	sptrembl Q9YPA9	ND
6022	192.8	HYPOTHETICAL 64.5 KD PROTEIN IN COX4-GTS1 INTERGENIC REGION.	swissprot P53099	ND
6023	192.5	HAPB.	sptrembl Q59847	ND
6024	192.4	MPV17 PROTEIN.	swissprot P19258	ND
6025	192.0	MEROZOITE SURFACE PROTEIN-1 (FRAGMENT).	sptrembl O00879	ND
6027	1910.6	GLUCOAMYLASE PRECURSOR (EC 3.2.1.3) (GLUCAN 1,4-ALPHA-GLUCOSIDASE) (1,4-ALPHA-D-GLUCAN GLUCOHYDROLASE).	swissprot P36914	ND
6028	191.9	HYPOTHETICAL 34.8 KD PROTEIN F YDL037C.	sptrembl Q12140	ND
6029	191.9	HYPOTHETICAL 18.8 KD PROTEIN C25H2.09 IN CHROMOSOME II.	swissprot P87150	ND
6030	191.8	MUCIN (FRAGMENT).	sptrembl Q14888	ND
6031	191.4	HYPOTHETICAL CALCIUM-BINDING PROTEIN C18B11.04 IN CHROMOSOME I.	swissprot Q09711	ND
6032	191.2	PROTEOPHOSPHOGLYCAN PRECURSOR (FRAGMENT).	sptrembl Q9Y076	ND
6033	191.1	F23N19.12.	tremblnew AAF19547	ND
6034	190.9	YGHL2 (FRAGMENT).	sptrembl Q91457	ND
6035	190.9	STB5 PROTEIN.	swissprot P38699	ND
6036	190.8	INTEGRIN BETA SUBUNIT.	sptrembl Q97343	ND
6037	190.8	HYDROXYPROLINE-RICH GLYCOPROTEIN PRECURSOR.	sptrembl Q41719	ND
6038	190.8	KEXIN-LIKE SERINE ENDOPROTEASE (FRAGMENT).	tremblnew AAF21601	ND
6039	190.8	PAROTID 'O' PROTEIN (FRAGMENT).	sptrembl Q00600	ND
6040	190.8	EXTENSIN.	sptrembl Q40503	ND
6041	190.6	PROLINE-RICH PROTEIN MP-3 (FRAGMENT).	swissprot P05143	ND
6042	190.4	Pig leukocyte prophenin peptide Proph1.	geneseq R82569	ND
6043	190.4	SALIVARY GLUE PROTEIN SGS-3 PRECURSOR.	swissprot P13728	ND

6044	190.3	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
6045	190.3	(VSP-3) PRECURSOR.	sptrembl Q39620	ND
6046	190.2	HIGH MOLECULAR WEIGHT BASIC NUCLEAR PROTEIN (FRAGMENT).	sptrembl Q91238	ND
6047	190.1	ARGININE-RICH 54 KD NUCLEAR PROTEIN.	sptrembl Q05519	ND
6048	1899.3	PEROXISOMAL HYDRATASE-DEHYDROGENASE-EPIMERASE (HDE) (MULTIFUNCTIONAL BETA-OXIDATION PROTEIN) (MFP) [INCLUDES: 2-ENOYL-COA HYDRATASE (EC 4.2.1.-); D-3-HYDROXYACYL COA DEHYDROGENASE (EC 1.1.1.-)].	swissnew Q01373	ND
6049	189.9	SALIVARY PROLINE-RICH PROTEIN PO PRECURSOR (ALLELE S).	swissprot P10163	ND
6050	189.8	36.4 KD PROLINE-RICH PROTEIN.	swissprot Q00451	ND
6051	189.7	RIBOSOMAL PROTEIN L38 (FRAGMENT).	tremblnew BAA25844	ND
6052	189.6	JASMONATE INDUCIBLE PROTEIN ISOLOG.	sptrembl Q04310	ND
6053	189.5	MUCIN 10, SUBMANDIBULAR GLAND SALIVARY MUCIN PRECURSOR (MUCIN APOPROTEIN).	sptrembl Q61002	ND
6054	189.4	TRANSLATION INITIATION PROTEIN-BELONGS TO THE SUA5-YRDC-YCIO-YWLC FAMILY.	sptrembl Q94530	ND
6055	189.4	LOW MOLECULAR WEIGHT GLUTENIN (FRAGMENT).	sptrembl Q41551	ND
6056	189.3	PROLINE-RICH PROTEIN.	sptrembl Q64306	ND
6057	189.0	ATRIAL-SPECIFIC MYOSIN HEAVY-CHAIN (FRAGMENT).	sptrembl Q90767	ND
6058	188.7	HYPOTHETICAL 45.3 KD PROTEIN.	sptrembl Q74840	ND
6059	188.5	PROLINE RICH PROTEIN PRECURSOR	sptrembl Q43558	ND
6060	188.1	SERINE THREONINE PROTEIN KINASE.	tremblnew CAA92266	ND
6061	187.9	MORPHOGENESIS-RELATED PROTEIN (MULTICOPY SUPPRESSION OF A BUDDING DEFECT 1).	swissprot P21339	ND
6062	187.8	F58A3.1B PROTEIN.	sptrembl Q93807	ND
6063	187.7	HYPOTHETICAL	sptrembl Q74350	ND

		BROMODOMAIN CONTAINING PROTEIN.		
6064	187.6	HYPOTHETICAL 36.9 KD PROTEIN C02D5.2 IN CHROMOSOME III.	swissprot P34276	ND
6065	1868.6	SONA.	sptrembl O74224	ND
6067	1860.7	GLUTAMIC ACID DECARBOXYLASE.	tremblnew BAA88152	Amino acid transport and metabolism
6068	1860.0	F57B10.3 PROTEIN.	sptrembl O44742	Carbohydrate transport and metabolism
6069	186.8	GLUE PROTEIN.	sptrembl Q27423	ND
6070	186.8	KIAA0595 PROTEIN (FRAGMENT).	sptrembl Q9Y4E0	ND
6071	186.8	Cercospora kikuchii membrane pump protein.	geneseqp W35808	ND
6072	186.8	MEMBRANE COMPONENT, CHROMOSOME 17, SURFACE MARKER 2 (OVARIAN CARCINOMA ANTIGEN CA125) (1A1-3B) (KIAA0049).	swissprot Q14596	ND
6073	186.8	WP6 PRECURSOR.	sptrembl Q39492	ND
6074	186.6	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT (EC 2.7.7.6).	swissprot P16356	ND
6075	186.6	COMES FROM THIS GENE.	sptrembl O23054	ND
6076	186.5	AT2G11910 PROTEIN.	tremblnew AAD22502	ND
6077	186.1	ADENOMATOSIS POLYPOSIS COLI (APC) (BALB/C APC).	sptrembl Q61315	ND
6078	186.0	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
6079	1854.7	TRANSCRIPTION INITIATION FACTOR TFIID (TATA-BOX FACTOR) (TATA SEQUENCE- BINDING PROTEIN) (TBP).	swissprot Q12731	Transcription
6080	185.8	DJ37E16.2 PROTEIN.	sptrembl Q9Y3L3	ND
6081	185.7	HYPOTHETICAL 30.6 KD PROTEIN.	sptrembl O94440	ND
6082	185.6	CAPSULAR ASSOCIATED PROTEIN.	sptrembl Q9Y8B9	ND
6083	185.6	HAC1 PROTEIN.	swissnew P41546	ND
6084	185.2	CANDIDAPEPSIN 3 PRECURSOR (EC 3.4.23.24) (ASPARTATE PROTEASE 3) (ACP 3) (SECRETED ASPARTIC PROTEASE 3).	swissprot P43092	ND
6085	185.0	GLUTATHIONE S- TRANSFERASE 1 (EC 2.5.1.18) (SR8) (GST CLASS- THETA).	swissprot P28342	ND
6086	1841.8	FATTY ACID SYNTHASE, ALPHA SUBUNIT.	sptrembl P78615	Lipid metabolism

6087	184.9	PROTEIN PHOSPHATASE 2C HOMOLOG 3 (EC 3.1.3.16) (PP2C-3).	swissprot Q09173	ND
6088	184.7	PUTATIVE IMPORTIN ALPHA SUBUNIT (FRAGMENT).	tremblnew BAA87276	ND
6089	184.6	HYPOTHETICAL 69.2 KD PROTEIN IN HSP30-PMP1 INTERGENIC REGION.	swissprot P25351	ND
6090	184.6	RNA BINDING PROTEIN (FRAGMENT).	tremblnew BAA83714	ND
6091	184.3	HYPOTHETICAL PROTEIN IN LEU2 3'REGION (FRAGMENT).	swissprot P34735	ND
6092	184.3	REGION B OF COSMID SCY07H7.	sptrembl O06266	ND
6093	184.1	VIRAL PROTEIN TPX.	swissprot P19275	ND
6094	184.1	SON OF SEVENLESS PROTEIN HOMOLOG 1 (SOS-1) (MSOS-1).	swissprot Q62245	ND
6095	184.0	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
6096	1839.9	HYPOTHETICAL 44.3 KD PROTEIN C27E2.03C IN CHROMOSOME I.	sptrembl O13998	ND
6097	1832.6	PUTATIVE DISULFIDE ISOMERASE TIGA PRECURSOR (EC 5.3.4.1).	swissprot Q00216	ND
6098	1830.2	CYSTEIN RICH PROTEIN.	sptrembl O13319	ND
6099	183.9	DENTIN PHOSPHOPROTEIN PRECURSOR.	sptrembl P70578	ND
6100	183.9	EXTENSIN-LIKE PROTEIN.	tremblnew CAB40774	ND
6101	183.9	HU1-70K SMALL NUCLEAR RNP PROTEIN (RNP12) (FRAGMENT).	sptrembl P78494	ND
6102	183.8	HYPOTHETICAL 35.1 KD PROTEIN.	tremblnew CAB38264	ND
6103	183.7	PUTATIVE CARBOXYPEPTIDASE.	sptrembl Q9X7P4	ND
6104	183.7	HYPOTHETICAL 113.1 KD PROTEIN IN PRE5-FET4 INTERGENIC REGION.	swissprot Q04893	ND
6105	183.7	Mycobacterium tuberculosis antigen TbH-30.	geneseqp W64360	ND
6106	183.6	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
6107	183.4	PLENTY-OF-PROLINES-101.	sptrembl O70495	ND
6108	183.4	NITROGEN METABOLITE REPRESSION REGULATOR NMRA.	sptrembl O59919	ND
6109	183.4	MEI2 protein kinase PAT1 encoded by AR301.	geneseqp W00160	ND
6110	183.3	GENOME, PARTIAL SEQUENCE.	sptrembl Q84529	ND
6111	183.2	LARGE TEGUMENT	swissprot P03186	ND

		PROTEIN.		
6112	182.9	PREDICTED PROTEIN OF UNKNOWN FUNCTION.	sptrembl O22758	ND
6113	182.6	HYPOTHETICAL 28.3 KD PROTEIN IN AROD-COMER INTERGENIC REGION.	swissprot P54458	ND
6114	182.6	SALIVARY PROLINE-RICH PROTEIN RP15 PRECURSOR.	sptrembl Q04154	ND
6115	182.5	MITOCHONDRIAL OUTER MEMBRANE PROTEIN MMM1.	swissprot P41800	ND
6116	182.3	EXTENSIN=NODULE-SPECIFIC PROLINE-RICH PROTEIN {CLONE VFNDSE}.	tremblnew G425682	ND
6117	182.3	F24K9.9 PROTEIN.	tremblnew AAF00656	ND
6118	182.1	DNA-DIRECTED RNA POLYMERASE II LARGE (205KD) SUBUNIT (EC 2.7.7.6) (FRAGMENT).	sptrembl Q99368	ND
6119	182.0	AT2G42310 PROTEIN.	tremblnew AAD23714	ND
6120	1812.2	G PROTEIN ALPHA SUBUNIT HOMOLOG GANAP.	sptrembl Q9Y7E3	ND
6121	1810.8	MEDUSA.	sptrembl O74251	ND
6122	1810.1	ISOCITRATE LYASE (EC 4.1.3.1) (ISOCITRASE) (ISOCITRATASE) (ICL).	swissprot P28298	Energy production and conversion
6123	181.8	PUTATIVE GLUCOSAMINE--FRUCTOSE-6-PHOSPHATE AMINOTRANSFERASE [ISOMERIZING] (EC 2.6.1.16) (HEXOSEPHOSPHATE AMINOTRANSFERASE) (D-FRUCTOSE-6-PHOSPHATE AMIDOTRANSFERASE) (GFAT).	swissprot Q09740	ND
6124	181.8	HYPOTHETICAL 15.8 KD PROTEIN IN SM11-PHO81 INTERGENIC REGION.	swissprot P50084	ND
6125	181.7	NTR.	tremblnew AAF23950	ND
6126	181.6	HYPOTHETICAL 15.6 KD PROTEIN C29B12.13 IN CHROMOSOME I.	sptrembl Q14034	ND
6127	181.6	QUINATE PERMEASE (QUINATE TRANSPORTER).	swissprot P15325	ND
6128	181.4	HYPOTHETICAL 15.2 KD PROTEIN.	sptrembl Q9X118	ND
6129	181.3	M. tuberculosis antigen TbH-30 amino acid sequence.	geneseqp Y39157	ND
6130	181.1	EXTENSIN PRECURSOR (CELL WALL.	swissprot P13983	ND

		HYDROXYPROLINE-RICH GLYCOPROTEIN).		
6131	181.1	PUTATIVE SNRNP PROTEIN.	tremblnew CAB45810	ND
6132	181.0	CEOA.	sptrembl O06470	ND
6133	1809.7	GENERAL AMINO-ACID PERMEASE GAP1.	swissprot P19145	Amino acid transport and metabolism
6134	1801.9	Aspergillus oryzae alpha-glucosidase.	geneseqp W15191	ND
6135	180.9	C-HORDEIN.	sptrembl Q41210	ND
6136	180.9	TRFA.	sptrembl O77033	ND
6137	180.9	HIGH MOLECULAR WEIGHT BASIC NUCLEAR PROTEIN (FRAGMENT).	sptrembl Q91238	ND
6138	180.9	Human breast tumour-associated protein 62.	geneseqp Y48517	ND
6139	180.6	SPLICEOSOME ASSOCIATED PROTEIN 49 (SAP 49) (SF3B53).	swissprot Q15427	ND
6140	180.5	PUTATIVE VICILIN STORAGE PROTEIN (GLOBULIN-LIKE).	sptrembl Q9ZU69	ND
6141	180.5	Fragment of human secreted protein encoded by gene 79.	geneseqp Y41541	ND
6142	180.4	PROBABLE MONOOXYGENASE RV0892 (EC 1.14.13.-).	swissnew Q10532	ND
6143	180.2	HYPOTHETICAL 50.3 KD PROTEIN.	tremblnew CAB55170	ND
6144	180.1	Mycobacterium species protein sequence 5C'.	geneseqp Y04776	ND
6145	1791.2	GLUCOSE-6-PHOSPHATE 1-DEHYDROGENASE (EC 1.1.1.49) (G6PD).	swissprot P48826	Carbohydrate transport and metabolism
6146	1790.6	PHOSPHOENOLPYRUVATE CARBOXYKINASE [ATP] (EC 4.1.1.49).	swissprot O43112	Energy production and conversion
6147	179.8	SERINE 2 ULTRA HIGH SULFUR PROTEIN.	sptrembl Q62220	ND
6148	179.4	CYCLOPHILIN-RELATED PROTEIN.	tremblnew AAA35734	ND
6149	179.3	PROLINE-RICH PROTEIN.	sptrembl Q64306	ND
6150	178.9	HYPOTHETICAL PROTEIN C30B4.01C IN CHROMOSOME II (FRAGMENT).	sptrembl P87179	ND
6151	178.5	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN (FRAGMENT).	sptrembl Q40552	ND
6152	178.4	RNA BINDING PROTEIN (FRAGMENT).	tremblnew BAA83714	ND
6153	178.3	GLUE PROTEIN.	sptrembl Q27929	ND
6154	178.2	HYPOTHETICAL 14.0 KD PROTEIN IN RPL15B-GCR3 INTERGENIC REGION.	swissprot Q03880	ND
6155	178.1	EXTENSIN-LIKE PROTEIN.	tremblnew	ND

			CAB37452	
6156	178.0	YFKN PROTEIN.	sptrembl O34313	ND
6157	178.0	GAMMA-BUTYROBETAINE,2-OXOGLUTARATE DIOXYGENASE (EC 1.14.11.1) (GAMMA-BUTYROBETAINE HYDROXYLASE) (GAMMA-BBH).	swissprot P80193	ND
6158	1771.1	ALTERNATIVE OXIDASE PRECURSOR (EC 1.-.-.-).	swissnew O74180	ND
6159	177.9	AP-1-LIKE TRANSCRIPTION FACTOR.	tremblnew CAB66170	ND
6160	177.9	HYPOTHETICAL 118.4 KD PROTEIN IN BAT2-DAL5 INTERGENIC REGION PRECURSOR.	swissprot P47179	ND
6161	177.8	HYPOTHETICAL STRUCTURAL PROTEIN.	tremblnew CAB53076	ND
6162	177.6	HYPOTHETICAL 77.4 KD PROTEIN.	sptrembl O65530	ND
6163	177.6	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
6164	177.4	HYPOTHETICAL 14.0 KD PROTEIN.	sptrembl O74383	ND
6165	177.4	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
6166	177.2	FROM BASES 2561111 TO 2573808 (SECTION 222 OF 400) OF THE COMPLETE GENOME (SECTION 222 OF 400).	sptrembl P76555	ND
6167	177.1	PEARLI 1-LIKE PROTEIN.	tremblnew CAB41720	ND
6168	177.1	TRANSCRIPTION FACTOR ZFM1.	sptrembl Q15637	ND
6169	177.0	CORE PROTEIN.	sptrembl Q64897	ND
6170	177.0	GASTRIC MUCIN (FRAGMENT).	sptrembl Q29070	ND
6171	177.0	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
6172	1764.6	Aspergillus oryzae porphobilinogen synthase	geneseqp W30558	Coenzyme metabolism
6173	1760.0	CITRATE SYNTHASE, MITOCHONDRIAL PRECURSOR (EC 4.1.3.7).	swissprot P51044	Energy production and conversion
6174	176.8	Human complement factor CR4 vWF domain sequence.	geneseqp Y21992	ND
6175	176.8	GASTRIC MUCIN (FRAGMENT).	sptrembl Q29070	ND
6176	176.7	C24B5.5 PROTEIN.	tremblnew AAD31546	ND
6177	176.7	PROTEOPHOSPHOGLYCAN PRECURSOR (FRAGMENT).	sptrembl Q9Y076	ND
6178	176.4	SPlicing FACTOR, ARGinine/SERINE-RICH 8 (SUPPRESSOR OF WHITE APRICOT PROTEIN HOMOLOG).	swissprot Q12872	ND

6179	176.3	EXTENSIN.	sptrembl Q39599	ND
6180	176.3	PROLINE-RICH MUCIN HOMOLOG.	sptrembl Q9XDH2	ND
6181	176.3	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
6182	176.2	HYPOTHETICAL 41.5 KD PROTEIN.	tremblnew CAB66198	ND
6183	176.2	AP-1-LIKE TRANSCRIPTION FACTOR.	swissprot P56095	ND
6184	1750.0	PUTATIVE ATP-CITRATE (PRO-S-)-LYASE (EC 4.1.3.8) (CITRATE CLEAVAGE ENZYME).	sptrembl O13907	ND
6185	175.9	SF16 ISOLOG.	sptrembl O22835	ND
6186	175.5	HEPATITIS A VIRUS RECEPTOR.	sptrembl O18984	ND
6187	175.4	HYPOTHETICAL 52.3 KD PROTEIN IN MRPL10-ERG24 INTERGENIC REGION PRECURSOR.	swissprot P53832	ND
6188	175.3	F19G14.12 PROTEIN.	sptrembl Q9XIL9	ND
6189	175.3	HYPOTHETICAL 59.4 KD PROTEIN.	sptrembl Q89392	ND
6190	174.9	PUTATIVE TRANSCRIPTIONAL ACTIVATOR.	tremblnew CAB59617	ND
6191	174.8	MRNA EXPRESSED IN CUCUMBER HYPOCOTYLS, COMPLETE CDS.	sptrembl Q9XIV1	ND
6192	174.7	Teredinibacter endoglucanase.	geneseqp W34989	ND
6193	174.7	PLENTY-OF-PROLINES-101.	sptrembl O70495	ND
6194	174.6	KIAA0396 (FRAGMENT).	sptrembl O43146	ND
6195	174.6	HYPOTHETICAL PROLINE- RICH PROTEIN (FRAGMENT).	swissprot P21260	ND
6196	174.6	P210 PROTEIN (FRAGMENT).	sptrembl Q9XGA4	ND
6197	174.2	Helix modification recognition protein Hmp1.	geneseqp W19120	ND
6198	174.0	Human alternatively spliced ETS2 repressor factor (AERF).	geneseqp W07701	ND
6199	1736.2	ACETAMIDASE REGULATORY PROTEIN.	swissprot Q06157	ND
6200	173.9	HEPATITIS A VIRUS CELLULAR RECEPTOR 1 LONG FORM (HEPATITIS A VIRUS CELLULAR RECEPTOR 1 SHORT FORM).	sptrembl O46597	ND
6201	173.9	TYROSINE-PROTEIN KINASE RECEPTOR TIE-1 PRECURSOR (EC 2.7.1.112).	swissprot Q06806	ND
6202	173.9	EXTENSIN.	sptrembl Q39599	ND
6203	173.9	PUTATIVE SPINDLE POLE BODY COMPONENT, PUTATIVE GAMMA-	sptrembl O94366	ND

		TUBULIN INTERACTING PROTEIN, YEAST SCP98 HOMOLOG (FRAGMENT).		
6204	173.9	F35E2.5 PROTEIN.	sptrembl O62223	ND
6205	173.9	PUTATIVE.	sptrembl Q9ZKY5	ND
6206	173.8	HYPOTHETICAL 76.9 KD PROTEIN.	sptrembl O43085	ND
6207	173.8	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
6208	173.8	FIBROIN-4 (FRAGMENT).	sptrembl Q16988	ND
6209	173.7	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN PRECURSOR (PELP).	swissprot Q03211	ND
6210	173.6	ANOTHER TRANSCRIPTION UNIT PROTEIN (ATU).	sptrembl Q94546	ND
6211	173.6	(VSP-3) PRECURSOR.	sptrembl Q39620	ND
6212	173.5	SER/ARG-RELATED NUCLEAR MATRIX PROTEIN.	sptrembl O60585	ND
6213	173.5	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
6214	173.4	WP6 PRECURSOR.	sptrembl Q39492	ND
6215	173.3	SALIVARY PROLINE-RICH PROTEIN RP4 PRECURSOR.	sptrembl Q04117	ND
6216	173.3	Fragmented human NF-H gene +2 frameshift mutant product.	geneseqp W18663	ND
6217	173.2	K09A9.6 PROTEIN.	sptrembl Q93178	ND
6218	173.1	PENICILLIN-BINDING PROTEIN 1.	tremblnew AAF10059	ND
6219	173.1	MICROTUBULE-ASSOCIATED PROTEIN 4 (FRAGMENT).	sptrembl Q98906	ND
6220	173.0	HYPOTHETICAL PROTEIN C30B4.01C IN CHROMOSOME II (FRAGMENT).	sptrembl P87179	ND
6221	173.0	HYPOTHETICAL 29.3 KD PROTEIN (ORF92).	swissprot Q10341	ND
6222	1725.6	TIP49.	sptrembl O35753	DNA replication, recombination and repair
6223	172.9	HYPERPOLARIZATION-ACTIVATED CATION CHANNEL, HAC1.	sptrembl O88703	ND
6224	172.8	F40E10.1 PROTEIN.	sptrembl Q20200	ND
6225	172.8	TRANSCRIPTION FACTOR RCC/EPB-1.	sptrembl Q91294	ND
6226	172.8	DNA-DIRECTED RNA POLYMERASE II LARGE (205KD) SUBUNIT (EC 2.7.7.6) (FRAGMENT).	sptrembl Q99366	ND
6227	172.7	M01F1.5 PROTEIN.	sptrembl Q21455	ND
6228	172.4	CUTINASE TRANSCRIPTION FACTOR 1 BETA.	swissprot P52959	ND

6229	172.4	HYPOTHETICAL PROLINE-RICH PROTEIN (FRAGMENT).	swissprot P21260	ND
6230	172.2	STE20/PAK KINASE HOMOLOGUE.	sptrembl O00911	ND
6231	172.1	WP6 PRECURSOR.	sptrembl Q39492	ND
6232	172.0	HYPOTHETICAL 33.4 KD PROTEIN IN RPL44B-RPC10 INTERGENIC REGION PRECURSOR.	swissprot P38844	ND
6233	172.0	TRANSCRIPTION FACTOR MBP1 (MBF SUBUNIT P120).	swissprot P39679	ND
6234	1710.3	ER CHAPERONE BIP.	tremblnew BAA82597	Posttranslational modification, protein turnover, chaperones
6235	171.8	MEROZOITE SURFACE PROTEIN 2 (FRAGMENT).	sptrembl O15691	ND
6236	171.8	TRANSCRIPTION FACTOR AP-2 ISOFORM 1 (FRAGMENT).	sptrembl Q60740	ND
6237	171.8	Y41E3.2 PROTEIN.	sptrembl O62432	ND
6238	171.7	PEARL1 4 PROTEIN.	tremblnew AAD29820	ND
6239	171.3	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew AAF10001	ND
6240	171.2	ACETYLXYLAN ESTERASE PRECURSOR (EC 3.1.1.72).	sptrembl Q99034	ND
6241	171.1	HOMEBOX PROTEIN.	sptrembl Q98911	ND
6242	171.1	ATPASE 6.	sptrembl Q33561	ND
6243	1703.0	ALANYL DIPEPTIDYL PEPTIDASE.	sptrembl Q9Y8E3	Amino acid transport and metabolism
6244	1701.3	DNA POLYMERASE EPSILON HOMOLOG.	sptrembl O93845	DNA replication, recombination and repair
6245	170.8	FIBROIN HEAVY CHAIN PRECURSOR (FIB-H) (FRAGMENTS).	swissprot P05790	ND
6246	170.7	Fragmented human NF-H gene +2 frameshift mutant product.	geneseq W18663	ND
6247	170.7	PUTATIVE EXTENSIN.	sptrembl Q9ZNU3	ND
6248	170.6	HEPATITIS A VIRUS CELLULAR RECEPTOR 1 LONG FORM (HEPATITIS A VIRUS CELLULAR RECEPTOR 1 SHORT FORM).	sptrembl O46598	ND
6249	170.2	MULTIDRUG RESISTANCE PROTEIN 2 (MULTIDRUG-EFFLUX TRANSPORTER 2).	swissprot P39843	ND
6250	170.1	ZONA PELLUCIDA PROTEIN (ZP).	sptrembl Q91236	ND
6251	170.1	RNA BINDING PROTEIN (FRAGMENT).	tremblnew BAA83714	ND
6252	1693.9	SACCHAROPINE	swissprot P38999	Amino acid

		DEHYDROGENASE [NADP+, L-GLUTAMATE FORMING] (EC 1.5.1.10).		transport and metabolism
6253	1690.9	NITRITE REDUCTASE [NAD(P)H] (EC 1.6.6.4).	swissprot P22944	Energy production and conversion
6254	169 9	FLGA insert stabilising polypeptide.	geneseqp W79128	ND
6255	169 6	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
6256	169.6	SYNAPSIN I (FRAGMENT).	sptrembl O62732	ND
6257	169.6	A-AGGLUTININ ATTACHMENT SUBUNIT PRECURSOR.	swissprot P32323	ND
6258	169 4	SUPPRESSOR PROTEIN SRP40.	swissprot P32583	ND
6259	169 3	KIAA1052 PROTEIN.	tremblnew BAA83004	ND
6260	169 3	LACTATE DEHYDROGENASE (EC 1.1.1.27).	sptrembl Q43000	ND
6261	169.1	DNA METHYLASE.	sptrembl O33298	ND
6262	168.8	HYPOTHETICAL 35.5 KD PROTEIN IN TRANSPOSON TN4556.	swissprot P20186	ND
6263	168 5	HP8 PEPTIDE.	sptrembl Q92657	ND
6264	168 5	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
6265	168 5	HOMEBOX PROTEIN GMIX.	sptrembl O73592	ND
6266	168.2	GNAS1 PROTEIN (FRAGMENT).	sptrembl O75685	ND
6267	168.1	PVA1 GENE.	sptrembl Q26195	ND
6268	168.0	SPERM MITOCHONDRIAL CAPSULE SELENOPROTEIN (MCS).	swissprot P49901	ND
6269	1672.1	HEXOSE TRANSPORTER.	sptrembl O13311	ND
6270	167 7	SER/ARG-RELATED NUCLEAR MATRIX PROTEIN.	sptrembl O60585	ND
6271	167 5	IRON TRANSPORT MULTICOPPER OXIDASE PRECURSOR (EC 1.-.-.-).	swissprot P38993	ND
6272	167 5	NUCLEAR PROTEIN.	sptrembl Q24898	ND
6273	167 5	FERTILIZATION-INDEPENDENT SEED 2 PROTEIN.	sptrembl Q9ZNT9	ND
6274	167 5	P2567 PROTEIN.	sptrembl Q99373	ND
6275	167 4	HYPOTHETICAL 29.3 KD PROTEIN.	sptrembl O74943	ND
6276	167 2	SPLICING COACTIVATOR SUBUNIT SRM300	tremblnew AAF21439	ND
6277	167.1	F23M19.11 PROTEIN.	sptrembl Q9XIC7	ND
6278	167.1	HYPOTHETICAL 26.6 KD PROTEIN C17A2.10C IN CHROMOSOME 1.	sptrembl O13760	ND

6279	167.1	HYPOTHETICAL 133.5 KD PROTEIN F26C11.3 IN CHROMOSOME II.	swissprot Q09550	ND
6280	167.0	LONG-CHAIN-FATTY-ACID COA LIGASE.	sptrembl O51162	ND
6281	166.9	ULTRA HIGH SULFER KERATIN.	sptrembl O75690	ND
6282	166.9	F12K2.3 PROTEIN.	sptrembl Q9XIP3	ND
6283	166.9	IMMEDIATE-EARLY PROTEIN IE180.	swissprot P33479	ND
6284	166.9	EXTENSIN-LIKE PROTEIN.	tremblnew CAB40774	ND
6285	166.9	LOW MOLECULAR WEIGHT GLUTENIN (FRAGMENT).	sptrembl Q41552	ND
6286	166.7	PROTEOPHOSPHOGLYCAN PRECURSOR (FRAGMENT).	sptrembl Q9Y076	ND
6287	166.7	TYPE VII COLLAGEN.	sptrembl Q63870	ND
6288	166.5	ENDO16 PROTEIN (FRAGMENT).	swissprot P13665	ND
6289	166.5	CYSTEINE-RICH PROTEIN (FRAGMENT).	sptrembl Q16861	ND
6290	166.4	CELL WALL-PLASMA MEMBRANE LINKER PROTEIN.	sptrembl Q39353	ND
6291	166.4	RETINA-DERIVED POU-DOMAIN FACTOR-1.	sptrembl P78425	ND
6292	166.4	HYPOTHETICAL 59.1 KD SERINE-RICH PROTEIN C23C4.10 IN CHROMOSOME I.	sptrembl O13930	ND
6293	166.4	DENTIN PHOSPHOPROTEIN PRECURSOR.	sptrembl P70578	ND
6294	166.3	GLUE PROTEIN.	sptrembl Q27423	ND
6295	166.3	NTR.	tremblnew AAF23950	ND
6296	166.2	36.4 KD PROLINE-RICH PROTEIN.	swissprot Q00451	ND
6297	166.2	F4P13.11 PROTEIN.	tremblnew AAF01541	ND
6298	166.1	F-BOX PROTEIN FBX11 (FRAGMENT).	tremblnew AAF04520	ND
6299	166.0	PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, C PRECURSOR (EC 3.1.3.48) (LYMPHOCYTE COMMON ANTIGEN).	sptrembl Q61812	ND
6300	1653.7	FUMARYLACETOACETASE (EC 3.7.1.2) (FUMARYLACETOACETATE HYDROLASE) (BETA-DIKETONASE) (FAA) (FAAH) (FAH).	sptrembl Q00770	ND
6301	165.9	Amino acid sequence of a collagen-like protein.	geneseq Y23937	ND
6302	165.9	KIAA0775 PROTEIN.	sptrembl O94873	ND

6303	165.8	HYPOTHETICAL 15.4 KD PROTEIN YPR056C.	sptrembl Q12160	ND
6304	165.7	2-HYDROXY-6-KETONONA-2,4-DIENOATE HYDROLASE.	sptrembl O05145	ND
6305	165.7	G-BOX BINDING FACTOR (GBF).	swissprot P36417	ND
6306	165.7	F4P13.11 PROTEIN.	tremblnew AAF01541	ND
6307	165.6	POP3.	sptrembl O74184	ND
6308	165.3	NADH-UBIQUINONE OXIDOREDUCTASE ASH1 SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-ASH1) (CI-ASH1).	swissprot Q02372	ND
6309	165.3	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
6310	165.3	HYPOTHETICAL 18.3 KD PROTEIN.	tremblnew CAB65601	ND
6311	165.2	MATING PROCESS PROTEIN MID2 (SERINE-RICH PROTEIN SMS1) (PROTEIN KINASE A INTERFERENCE PROTEIN).	swissprot P36027	ND
6312	165.2	ORF OF UNKNOWN FUNCTION.	sptrembl Q09149	ND
6313	165.1	Mycobacterium species protein sequence 50B.	geneseqp Y04998	ND
6314	165.0	VITELLINE MEMBRANE PROTEIN HOMOLOG.	sptrembl O01362	ND
6315	1649.9	C-4 METHYL STEROL OXIDASE (EC 1.-.-.-).	swissprot O59933	ND
6316	1644.6	DIACYLGLYCEROL LIPASE.	sptrembl P78583	ND
6317	164.9	CELL SURFACE GLYCOPROTEIN 1 PRECURSOR (OUTER LAYER PROTEIN B) (S-LAYER PROTEIN 1).	swissprot Q06852	ND
6318	164.9	HYPOTHETICAL 97.8 KD PROTEIN.	sptrembl O94685	ND
6319	164.3	ISOFLAVONE REDUCTASE HOMOLOG (EC 1.3.1.-).	swissprot P52578	ND
6320	164.2	O-METHYLTRANSFERASE.	sptrembl O07431	ND
6321	164.1	Y41E3.11 PROTEIN.	tremblnew CAB63361	ND
6322	164.0	HYPOTHETICAL 39.1 KD PROTEIN.	sptrembl Q9XE89	ND
6323	1639.4	Aspergillus oryzae AreA regulator protein.	geneseqp W31630	ND
6324	1637.8	Hydroxyphenyl pyruvate dehydrogenase (HPDD) protein.	geneseqp Y15821	ND
6325	1636.3	SUCCINATE DEHYDROGENASE [UBIQUINONE] IRON-	swissnew O42772	Energy production and conversion

		SULFUR PROTEIN, MITOCHONDRIAL PRECURSOR (EC 1.3.5.1) (IP).		
6326	1633.0	A. niger SFAG 2 carboxypeptidase Y.	geneseqp R96738	ND
6327	163.9	SIMILARITY TO CHICKEN LIMB DEFORMITY PROTEIN.	sptrembl Q22534	ND
6328	163.9	HYPOTHETICAL PROTEIN IRL5 (TRL5).	swissprot P16803	ND
6329	163.9	5E5 ANTIGEN.	swissprot Q63003	ND
6330	163.8	VITELLOGENIN (FRAGMENT).	sptrembl Q90237	ND
6331	163.6	Nucleic acid binding domain from apoB-100.	geneseqp W96830	ND
6332	163.6	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG PRECURSOR.	swissprot P40602	ND
6333	163.6	ARGININE-RICH 54 KD NUCLEAR PROTEIN.	sptrembl Q05519	ND
6334	163.5	XSMAD4A.	sptrembl Q9W639	ND
6335	163.4	PRP4 PROTEIN KINASE HOMOLOG (FRAGMENT).	sptrembl O88378	ND
6336	163.2	SUPPRESSOR PROTEIN SRP40.	swissprot P32583	ND
6337	163.2	HYPOTHETICAL 77.4 KD PROTEIN.	sptrembl O65530	ND
6338	163.1	PROLINE-RICH SALIVARY PROTEIN (FRAGMENT).	sptrembl Q62107	ND
6339	1622.8	GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN (CROSS-PATHWAY CONTROL WD-REPEAT PROTEIN CPC-2).	swissprot Q01369	ND
6340	1620.0	GLUTAMINASE A.	tremblnew BAA86934	ND
6341	162.9	Peptide fragment of N-type calcium channel.	geneseqp R96419	ND
6342	162.9	IMMEDIATE-EARLY PROTEIN IE-0.	swissprot O10369	ND
6343	162.8	SALIVARY GLUE PROTEIN SGS-3 PRECURSOR.	swissprot P13730	ND
6344	162.7	TOUCAN PROTEIN.	sptrembl O46112	ND
6345	162.7	COMPLETE GENOME.	tremblnew AAF19337	ND
6346	162.6	SALIVARY PROLINE-RICH PROTEIN II-1 (FRAGMENT).	swissprot P81489	ND
6347	162.6	MUCIN (FRAGMENT).	sptrembl Q14888	ND
6348	162.6	WD REPEAT PROTEIN.	tremblnew CAB52157	ND
6349	162.5	SIMILAR TO DROSOPHILA MELANOGASTER ANKYRIN.	sptrembl Q84566	ND
6350	162.3	Notch hN5k full length clone.	geneseqp R28964	ND

6351	162.2	PROBABLE PROLYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.15) (PROLINE-- TRNA LIGASE) (PRORS).	swissprot P39965	ND
6352	162.2	CODED FOR BY C. ELEGANS CDNA YK91G9.5.	sptrembl Q21721	ND
6353	162.2	S. lavendulae ORF3 gene product.	geneseqp R72381	ND
6354	162.2	THIOREDOXIN.	swissnew P50338	ND
6355	162.1	EXTENSIN PRECURSOR (PROLINE-RICH GLYCOPROTEIN).	swissprot P14918	ND
6356	162.0	HYPOTHETICAL 48.2 KD PROTEIN.	sptrembl Q04921	ND
6357	1614.5	EUKARYOTIC INITIATION FACTOR 4A (EIF-4A).	swissprot P47943	DNA replication, recombination and repair
6358	1611.8	SIGNAL RECOGNITION PARTICLE 54 KD PROTEIN HOMOLOG.	swissprot Q00179	Cell motility and secretion
6359	161.9	LDLBP.	sptrembl Q9Z160	ND
6360	161.8	HYPOTHETICAL 36.5 KD PROTEIN.	tremblnew AAD49213	ND
6361	161.8	DEFECTIVE CHORION-1 PROTEIN PRECURSOR (FRAGMENTS).	sptrembl Q23933	ND
6362	161.7	TEGUMENT PROTEIN.	sptrembl O09799	ND
6363	161.6	MUCIN-LIKE PROTEIN.	sptrembl O77242	ND
6364	161.5	336AA LONG HYPOTHETICAL DTDP-GLUCOSE 4,6-DEHYDRATASE.	sptrembl O58151	ND
6365	161.4	WW DOMAIN BINDING PROTEIN 11.	sptrembl O88539	ND
6366	161.2	NOC1 PROTEIN.	sptrembl P79065	ND
6367	161.1	PUTATIVE TRANSCRIPTIONAL REGULATOR.	sptrembl O13337	ND
6368	161.1	Human N-methyl-D-aspartate receptor subunit encoded by clone NMDA24.	geneseqp W87504	ND
6369	161.0	THERMAL HYSTERESIS PROTEIN ISOFORM 4-9 PRECURSOR.	tremblnew AAD55256	ND
6370	161.0	M. tuberculosis immunogenic polypeptide 1bH-29.	geneseqp W81726	ND
6371	1608.6	Aspergillus niger Sulphydryl oxidase (SOX).	geneseqp R43074	ND
6372	1604.5	ACETYL-COENZYME A SYNTHETASE (EC 6.2.1.1) (ACETATE--COA LIGASE) (ACYL- ACTIVATING ENZYME).	swissprot P16928	Lipid metabolism
6373	1603.1	40S RIBOSOMAL PROTEIN S3AE (S1).	swissprot P40910	Translation, ribosomal structure and

				biogenesis
6374	1602.9	NADH-UBIQUINONE OXIDOREDUCTASE 30.4 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-30KD) (CI- 31KD).	swissprot P23710	Energy production and conversion
6375	160.8	ATTACHMENT PROTEIN.	sptrembl Q65306	ND
6376	160.7	L3162.7.	sptrembl O60978	ND
6377	160.7	HYPOTHETICAL 49.6 KD PROTEIN C18B11.03C IN CHROMOSOME I.	swissprot Q09710	ND
6378	160.6	Y53H1A.1 PROTEIN.	tremblnew CAB63392	ND
6379	160.6	ARGININE/SERINE-RICH PROTEIN.	tremblnew AAF19004	ND
6380	160.6	CODED FOR BY C. ELEGANS CDNA YK60B10.5.	sptrembl Q94247	ND
6381	160.5	HYPOTHETICAL 57.2 KD PROTEIN.	sptrembl O68872	ND
6382	160.1	SERINE/ARGININE-RICH PROTEIN	tremblnew AAF17288	ND
6383	160.1	WUGSC:H_NH0353P23.1 PROTEIN (FRAGMENT).	sptrembl O95033	ND
6384	160.0	LOW MOLECULAR WEIGHT GLUTENIN SUBUNIT PRECURSOR (FRAGMENT).	sptrembl Q9XGE9	ND
6385	160.0	JAGGED 2 (JAGGED 2 PROTEIN) (FRAGMENT).	sptrembl O70219	ND
6386	159.9	Peptide encoded by HRGP gene cassette incorporating a GAGP construct.	geneseqp Y01282	ND
6387	159.8	ADRENAL CREB-RP HOMOLOG.	sptrembl Q99635	ND
6388	159.7	HYPOTHETICAL 29.0 KD PROTEIN.	sptrembl Q9Y7C9	ND
6389	159.7	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q40692	ND
6390	159.7	Mouse Fas-binding protein Daxx.	geneseqp W61532	ND
6391	159.4	TRANSPOSASE.	sptrembl Q9WXF7	ND
6392	159.4	KIAA0303 (FRAGMENT).	sptrembl O15021	ND
6393	159.4	HYPOTHETICAL 31.5 KD PROTEIN	swissprot P46218	ND
6394	159.4	COILED-COIL PROTEIN.	sptrembl Q9Y708	ND
6395	159.4	MUCIN-LIKE PROTEIN.	sptrembl Q9YMX0	ND
6396	159.3	TAIL-SPECIFIC THYROID HORMONE UP-REGULATED (GENE 5).	sptrembl Q91638	ND
6397	159.2	EXTENSIN-LIKE PROTEIN.	tremblnew AAD55980	ND
6398	159.2	HYPOTHETICAL 96.9 KD PROTEIN	tremblnew CAA22569	ND

6399	1587.5	A. crysogenum cystathionine beta-synthase.	geneseqp R72589	Amino acid transport and metabolism
6400	1584.8	PENTAFUNCTIONAL AROM POLYPEPTIDE [INCLUDES: 3-DEHYDROQUINATE SYNTHASE (EC 4.6.1.3); 3-DEHYDROQUINATE DEHYDRATASE (EC 4.2.1.10) (3-DEHYDROQUINASE); SHIKIMATE 5-DEHYDROGENASE (EC 1.1.1.25); SHIKIMATE KINASE (EC 2.7.1.71); EPSP SYNTHASE (EC 2.5.1.19)].	swissnew P07547	Amino acid transport and metabolism
6401	158.8	PAP8 PRODUCT (FRAGMENT).	sptrembl Q43586	ND
6402	158.8	CODED FOR BY C. ELEGANS CDNA YK127B8.5.	sptrembl Q20648	ND
6403	158.8	N-WASP.	sptrembl O00401	ND
6404	158.6	CTG7A (FRAGMENT).	sptrembl O15413	ND
6405	158.6	ENDOSPERM TISSUE PRECURSOR	sptrembl Q41295	ND
6406	158.6	Fragmented human NF-H gene +2 frameshift mutant product.	geneseqp W18663	ND
6407	158.5	HYPOTHETICAL 54.4 KD PROTEIN.	tremblnew CAB51187	ND
6408	158.5	50KD PROLINE RICH PROTEIN.	sptrembl Q9ZBP2	ND
6409	158.5	KIAA0674 PROTEIN (FRAGMENT).	sptrembl Q9Y4D0	ND
6410	158.5	C46C2.1 PROTEIN.	sptrembl Q18657	ND
6411	158.5	F13F21.7 PROTEIN.	sptrembl Q9XIB6	ND
6412	158.4	PROLINE-RICH PROTEIN PRECURSOR.	sptrembl Q41122	ND
6413	158.2	MOBP.	sptrembl Q13874	ND
6414	158.1	ATROPHIN-1 (FRAGMENT).	sptrembl O97923	ND
6415	158.1	PLENTY-OF-PROLINES-101.	sptrembl O70495	ND
6416	158.1	CNS MYELIN PROTEIN MOBP-169.	tremblnew AAD44968	ND
6417	158.1	MHC CLASS I CHAIN-RELATED PROTEIN (FRAGMENT).	sptrembl O98020	ND
6418	158.0	EXTENSIN CLASS II PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) (HRGP) (TOML-4).	sptrembl Q09084	ND
6419	1577.4	ACTIN-RELATED PROTEIN ARPA.	sptrembl Q9Y721	Cell division and chromosome partitioning
6420	1576.4	14-3-3 PROTEIN HOMOLOG (TH1433).	swissprot Q99002	ND
6421	1572.6	INORGANIC	swissprot O13505	Energy

		PYROPHOSPHATASE (EC 3.6.1.1) (PYROPHOSPHATE PHOSPHO- HYDROLASE) (PPASE).		production and conversion
6422	157.9	Ubiquitin-beta-galactosidase junction.	geneseqp R22231	ND
6423	157.9	COSMID R153.	sptrembl Q22001	ND
6424	157.9	PROTEASE (EC 3.4.23.-) (FRAGMENT).	sptrembl Q01875	ND
6425	157.9	HYPOTHETICAL 32.8 KD PROTEIN (FRAGMENT).	tremblnew CAB55954	ND
6426	157.8	PUTATIVE CYTOCHROME P450.	tremblnew AAF04170	ND
6427	157.8	HYPOTHETICAL 24.0 KD PROTEIN T28D9.2 IN CHROMOSOME II.	swissprot Q10021	ND
6428	157.7	EXTENSIN-LIKE PROTEIN.	tremblnew CAB40769	ND
6429	157.7	DIBASIC PROCESSING ENDOPROTEASE PRECURSOR (EC 3.4.21.-).	swissprot P42781	ND
6430	157.6	PUTATIVE ZINC FINGER PROTEIN.	sptrembl Q9ZUM9	ND
6431	157.6	MUCIN (FRAGMENT).	sptrembl Q14881	ND
6432	157.6	WISKOTT-ALDRICH SYNDROME PROTEIN HOMOLOG 1.	sptrembl O36027	ND
6433	157.6	ORF 1 AND ORF2 5' REGION PRECURSOR.	sptrembl Q54913	ND
6434	157.5	CTG26 ALTERNATE OPEN READING FRAME (FRAGMENT).	sptrembl O15421	ND
6435	157.3	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
6436	157.3	HYDROLASE 314 aa, chain A	pdb 7PCK	ND
6437	157.2	EMPTY SPIRACLES HOMEOTIC PROTEIN.	swissprot P18488	ND
6438	157.1	POSITIONAL COUNTERPART OF HSV-1 GENE US5.	sptrembl O39307	ND
6439	1567.6	40S RIBOSOMAL PROTEIN S4-2.	tremblnew CAB57920	Translation, ribosomal structure and biogenesis
6440	1566.9	PUTATIVE YEAST CELL DIVISION CYCLE CDC50 HOMOLOG.	sptrembl O94568	ND
6441	1566.3	ACONITASE.	sptrembl O74699	Energy production and conversion
6442	1563.2	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A (EC 3.6.1.34) (V-ATPASE 67 KD SUBUNIT).	swissprot P11592	Energy production and conversion
6443	1562.9	ACETYL-COA ACETYLTRANSFERASE IB (EC 2.3.1.9) (PEROXISOMAL	swissprot Q04677	Lipid metabolism

		ACETOACETYL-COA THIOLASE) (THIOLASE IB).		
6444	156.9	GASTRIC MUCIN (FRAGMENT).	sptrembl Q29071	ND
6445	156.8	G-BOX BINDING PROTEIN.	sptrembl O65887	ND
6446	156.8	HISTIDINE-RICH PROTEIN.	sptrembl O33447	ND
6447	156.8	PROBABLE E4 PROTEIN.	swissprot P17384	ND
6448	156.7	EXTENSIN PRECURSOR (PROLINE-RICH GLYCOPROTEIN).	swissprot P24152	ND
6449	156.7	Porphorymonas gingivalis protein PG87.	geneseqp Y34563	ND
6450	156.5	NUCLEOLAR PHOSPHOPROTEIN P130.	sptrembl Q14978	ND
6451	156.4	Residues 253-425 of human type A EBNA2 (strain B95-8).	geneseqp W45092	ND
6452	156.4	PROLINE RICH PROTEIN.	sptrembl O22514	ND
6453	156.4	NADH OXIDASE.	sptrembl Q9WYL1	ND
6454	156.4	HANSENULA MRAKII KILLER TOXIN-RESISTANT PROTEIN 1 PRECURSOR.	swissprot P41809	ND
6455	156.4	HYPOTHETICAL 28.9 KD PROTEIN.	sptrembl Q03931	ND
6456	156.3	Sequence of Histidine-rich protein (HisRP).	geneseqp R24393	ND
6457	156.3	SERINE-RICH PROTEIN.	sptrembl O94317	ND
6458	156.0	NEUROMODULIN (AXONAL MEMBRANE PROTEIN GAP-43) (PP46) (B- 50) (PROTEIN F1) (CALMODULIN-BINDING PROTEIN P-57).	swissprot P55860	ND
6459	156.0	GLYCOPROTEIN G-2 (FRAGMENT).	tremblnew CAB65666	ND
6460	156.0	PRE-NECK APPENDAGE PROTEIN (LATE PROTEIN GP12).	swissprot P20345	ND
6461	156.0	167AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YAM3	ND
6462	156.0	CODED FOR BY C. ELEGANS CDNA CEMSE92F.	sptrembl Q19059	ND
6463	1557.7	PUTATIVE CALCIUM P- TYPE ATPASE (FRAGMENT).	tremblnew CAB65295	Inorganic ion transport and metabolism
6464	1554.5	PUTATIVE THIAZOLE SYNTHASE.	tremblnew AAF25444	ND
6465	155.9	G2 GLYCOPROTEIN (FRAGMENT).	sptrembl O55365	ND
6466	155.9	TR3BETA.	sptrembl Q15627	ND
6467	155.9	R07E5.6 PROTEIN.	sptrembl Q21823	ND
6468	155.8	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q40692	ND
6469	155.8	LORICRIN.	swissprot P23490	ND
6470	155.8	HYPOTHETICAL 11.7 KD	sptrembl Q9Y7P8	ND

		PROTEIN.		
6471	155.8	HL60 cell line protein fragment.	geneseqp W73307	ND
6472	155.7	SALIVARY GLUE PROTEIN SGS-3 PRECURSOR.	swissprot P13729	ND
6473	155.6	HYPOTHETICAL PROTEIN (ORF2) (FRAGMENT).	swissprot O33369	ND
6474	155.6	PROLINE RICH PROTEIN.	sptrembl O22514	ND
6475	155.6	EARLY NODULIN 20 PRECURSOR (N-20).	swissprot P93329	ND
6476	155.5	Cotton fibrous tissue specific protein KC03.	geneseqp W15761	ND
6477	155.4	SIGNAL RECEPTOR PROTEIN (FRAGMENT).	tremblnew CAB65469	ND
6478	155.3	HYPOTHETICAL 63.8 KD PROTEIN IN GU11-RIM1 INTERGENIC REGION PRECURSOR.	swissprot P38739	ND
6479	155.2	INTEGRAL MEMBRANE PROTEIN.	sptrembl Q9Y786	ND
6480	155.2	EYELID.	sptrembl O61603	ND
6481	155.2	KINESIN-LIKE PROTEIN.	sptrembl O94053	ND
6482	155.2	191AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YDC9	ND
6483	155.2	PROTO-ONCOGENE AF4.	sptrembl O88573	ND
6484	155.2	Fructosyl amino acid oxidase.	geneseqp W24134	ND
6485	155.1	PREPROACROSIN.	tremblnew CAA41441	ND
6486	155.1	T04F8.8 PROTEIN.	sptrembl Q22168	ND
6487	155.0	W07G1.3 PROTEIN.	sptrembl Q9XUK2	ND
6488	154.4	TUBULIN BETA CHAIN.	swissprot Q00264	ND
6489	154.2	HYPOTHETICAL 30.8 KD PROTEIN.	sptrembl O74710	ND
6490	154.9	SP85 (FRAGMENT).	sptrembl O61134	ND
6491	154.9	PACMAN PROTEIN.	sptrembl Q9XZU2	ND
6492	154.6	NEURAL RETINA-SPECIFIC LUCIFINE ZIPPER PROTEIN (NRL) (D14S46E).	swissprot P54845	ND
6493	154.5	Delivery peptide used in peptide macromolecule complex.	geneseqp W38808	ND
6494	154.4	EXTENSIN-LIKE PROTEIN, DIF54 PRECURSOR.	sptrembl Q43505	ND
6495	154.4	Mycobacterium species protein sequence 41T#2.	geneseqp Y04954	ND
6496	154.3	MEROZOITE SURFACE PROTEIN 1 (FRAGMENT).	tremblnew CAB60129	ND
6497	154.3	HYPOTHETICAL 73.6 KD PROTEIN RV2082.	swissnew Q10690	ND
6498	154.2	Trypanosoma cruzi TCR27 polypeptide, Ag15.	geneseqp R84568	ND
6499	154.2	HYPOTHETICAL 97.1 KD PROTEIN C32A11.02C IN	swissprot Q10327	ND

		CHROMOSOME 1.		
6500	154.2	CYTOCHROME B (FRAGMENT).	sptrembl O03563	ND
6501	154.2	KIAA0324 PROTEIN (FRAGMENT).	tremblnew BAA20782	ND
6502	154.2	HIGH MOLECULAR WEIGHT BASIC NUCLEAR PROTEIN (FRAGMENT).	sptrembl Q91238	ND
6503	154.0	PUTATIVE PHOSPHOTRANSFERASE.	sptrembl Q9X8F0	ND
6504	154.0	Y24F12A.4 PROTEIN.	tremblnew CAB60327	ND
6505	1539.0	PROBABLE ISOCITRATE DEHYDROGENASE.	tremblnew CAB62099	Amino acid transport and metabolism
6506	1537.1	PUTATIVE PHOSPHATIDYLINOSITOL-KINASE (FRAGMENT).	sptrembl Q9Y7K2	ND
6507	153.9	MAJOR FACILITATOR SUPERFAMILY PROTEIN.	sptrembl O59738	ND
6508	153.9	SPORE COAT PROTEIN SP96.	swissprot P14328	ND
6509	153.9	HERPES SIMPLEX VIRUS TYPE 2 (STRAIN HG52), COMPLETE GENOME.	sptrembl P90493	ND
6510	153.5	F40H3.1 PROTEIN.	tremblnew AAC67429	ND
6511	153.5	PROLINE RICH PROTEIN.	sptrembl Q91810	ND
6512	153.5	EYELID.	sptrembl O61603	ND
6513	153.5	111AA LONG HYPOTHETICAL PROTEIN.	sptrembl O59222	ND
6514	153.4	PENICILLIN-BINDING PROTEIN 1.	tremblnew AAF10059	ND
6515	153.4	ENDOSTYLE-SPECIFIC.	sptrembl O44238	ND
6516	153.2	PREDICTED PROTEIN.	sptrembl O49570	ND
6517	153.2	SPLICING FACTOR U2AF 65 KD SUBUNIT (U2 AUXILIARY FACTOR 65 KD SUBUNIT) (U2 SNRNP AUXILIARY FACTOR LARGE SUBUNIT) (U2AF65).	swissprot P90727	ND
6518	153.2	HRCQ HOMOLOG.	tremblnew AAD46901	ND
6519	153.2	HYPOTHETICAL 46.5 KD PROTEIN.	sptrembl Q9X7U6	ND
6520	153.1	PUTATIVE 3 BETA-HYDROXYSTEROID DEHYDROGENASE/DELTA 5--4-ISOMERASE (3BETA-HSD) [INCLUDES: 3-BETA-HYDROXY-DELTA(5)-STEROID DEHYDROGENASE (EC 1.1.1.145) (3-BETA-HYDROXY-5-ENE STEROID DEHYDROGENASE) (PROGESTERONE	swissprot P53199	ND

		REDUCTASE); STEROID DELTA-ISOMERASE (EC 5.3.3.1) (DELTA- 5-3-KETOSTEROID ISOMERASE)].		
6521	153.1	(TGGCA-BINDING PROTEIN).	sptrembl Q91797	ND
6522	153.0	CONSERVED HYPOTHETICAL PROTEIN.	tremblnew AAF12297	ND
6523	153.0	SPORE COAT PROTEIN SP96.	swissprot P14328	ND
6524	153.0	NUCLEAR PROTEIN.	sptrembl Q24898	ND
6525	153.0	PUTATIVE PROLINE-RICH PROTEIN PRP2 PRECURSOR.	sptrembl Q9ZQ10	ND
6526	153.0	ZINC FINGER PROTEIN 157	swissprot P51786	ND
6527	153.0	MYOSIN-1A.	sptrembl O77202	ND
6528	1527.6	ACID PHOSPHATASE PRECURSOR (EC 3.1.3.2).	swissprot P34724	ND
6529	1526.1	ALPHA-MANNOSIDASE (EC 3.2.1.113).	sptrembl Q12563	ND
6530	152.9	SERINE-RICH PROTEIN.	sptrembl O94317	ND
6531	152.9	ZHB0005.1.	tremblnew CAB55413	ND
6532	152.8	CAVEOLIN-2.	swissprot Q18879	ND
6533	152.8	SIALIDASE (EC 3.2.1.18) (EXO-ALPHA-SIALIDASE) (NEURAMINIDASE) (N-ACYLNEURAMINATE GLYCOHYDROLASE) (ALPHA-NEURAMINIDASE).	sptrembl Q59164	ND
6534	152.7	MFS14 PROTEIN PRECURSOR.	swissprot Q01900	ND
6535	152.6	SIMILAR TO PHOSPHATIDIC ACID PHOSPHATASE.	tremblnew CAB52620	ND
6536	152.6	F32D8.7 PROTEIN.	sptrembl Q19961	ND
6537	152.6	F24J5.4.	tremblnew AAD49970	ND
6538	152.6	GENOME. PARTIAL SEQUENCE.	sptrembl Q98457	ND
6539	152.6	OVERLAPPING PROTEIN.	tremblnew AAF09239	ND
6540	152.3	PUTATIVE PROLINE-RICH CELL WALL PROTEIN.	sptrembl O82327	ND
6541	152.3	CYTOCHROME P450-LIKE PROTEIN.	tremblnew CAB38283	ND
6542	152.1	GENE 3 PROTEIN.	swissprot P28988	ND
6543	152.0	P21 REX {ALTERNATIVELY SPLICED}.	tremblnew G263535	ND
6544	1517.8	VACUOLAR ATP SYNTHASE SUBUNIT AC39 (EC 3.6.1.34) (V-ATPASE AC39 SUBUNIT) (V-ATPASE 41 KD SUBUNIT).	swissprot P53659	Energy production and conversion
6545	1515.2	CYSTEINE SYNTHASE (EC	swissprot P50867	Amino acid

		4.2.99.8) (O-ACETYL SERINE SULFHYDRYLASE) (O-ACETYL SERINE (THIOL)-LYASE) (CSASE).		transport and metabolism
6547	1513.5	ACETAMIDASE (EC 3.5.1.4).	swissprot P08158	ND
6548	1510.5	CYTOCHROME C1, HEME PROTEIN PRECURSOR.	swissprot P07142	ND
6549	151.9	HYPOTHETICAL ZINC-FINGER PROTEIN.	sptrembl O74823	ND
6550	151.8	GIANT SECRETORY PROTEIN I-A PRECURSOR (GSP-IA) (BALBIANI RING-1 CHAIN) (FRAGMENT).	sptrembl Q00625	ND
6551	151.8	PUTATIVE TRANSCRIPTIONAL ACTIVATOR.	sptrembl O59830	ND
6552	151.7	F53B7.5 PROTEIN.	sptrembl Q19522	ND
6553	151.7	PROBABLE GLUCONOKINASE (EC 2.7.1.12) (GLUCONATE KINASE).	swissprot Q10242	ND
6554	151.7	232AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YA94	ND
6555	151.6	GLUTAMYL-TRNA REDUCTASE 3 PRECURSOR (EC 1.2.1.-) (GLUTR).	swissprot O65796	ND
6556	151.5	PROTEASE 1.	sptrembl O13304	ND
6557	151.5	RNA BINDING PROTEIN (FRAGMENT).	tremblnew BAA83717	ND
6558	151.5	HYPOTHETICAL 34.8 KD PROTEIN.	tremblnew CAB41147	ND
6559	151.4	50KD PROLINE RICH PROTEIN.	sptrembl Q9ZBP2	ND
6560	151.4	ORF58.	sptrembl O36408	ND
6561	151.3	HYPOTHETICAL 61.1 KD PROTEIN (FRAGMENT).	tremblnew CAB63715	ND
6562	151.3	SPLICING FACTOR, ARGININE/SERINE-RICH 10 (PUTATIVE MYELIN REGULATORY FACTOR 1) (MRF-1) (FRAGMENT).	swissprot Q60701	ND
6563	151.2	Acetobacter xylinum CMCase ORF2 gene product.	geneseqp W69762	ND
6564	151.2	JC8.8 PROTEIN.	sptrembl O62289	ND
6565	151.2	CCAAT/ENHANCER CORE BINDING PROTEIN.	sptrembl Q91346	ND
6566	151.1	375AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9Y949	ND
6567	151.1	HYDROXYPROLINE-RICH GLYCOPROTEIN PRECURSOR.	sptrembl Q41719	ND
6568	151.0	HYPOTHETICAL 40.0 KD PROTEIN.	tremblnew AAF10516	ND
6569	1509.7	HOMOACONITASE PRECURSOR (EC 4.2.1.36) (HOMOACONITATE HYDRATASE).	swissprot Q92412	ND

6570	1509.3	NMT1 PROTEIN HOMOLOG.	swissprot P42882	Inorganic ion transport and metabolism
6571	1506.7	PHOSPHATIDYLGLYCEROL /PHOSPHATIDYLINOSITOL TRANSFER PROTEIN.	sptrembl O94183	ND
6572	1505.6	6-PHOSPHOGLUCONATE DEHYDROGENASE, DECARBOXYLATING 1 (EC 1.1.1.44).	swissprot P38720	Carbohydrate transport and metabolism
6573	1503.8	A. niger 2,3-dihydroxybenzoic acid decarboxylase protein.	geneseqp W93483	ND
6574	1502.3	CITRATE SYNTHASE, MITOCHONDRIAL PRECURSOR (EC 4.1.3.7).	swissprot O00098	Energy production and conversion
6575	1500.0	GTP-BINDING PROTEIN YPT1.	swissprot P33723	ND
6576	150.9	FLGA insert stabilising polypeptide.	geneseqp W79128	ND
6577	150.8	EMR1 (FRAGMENT).	sptrembl O08743	ND
6578	150.8	SALIVARY GLUE PROTEIN SGS-3 PRECURSOR.	swissprot P02840	ND
6579	150.7	OXIDOREDUCTASE, SHORT-CHAIN DEHYDROGENASE/REDUC TASE FAMILY.	tremblnew AAF09705	ND
6580	150.7	PROBABLE E4 PROTEIN.	swissprot P06425	ND
6581	150.6	PUTATIVE ABC- TRANSPORTER. PERMEASE SUBUNIT.	sptrembl Q9Y8J6	ND
6582	150.6	PUTATIVE GLYCOSYLTRANSFERASE.	tremblnew CAB60235	ND
6583	150.5	REGULATORY PROTEIN E2.	sptrembl O40620	ND
6584	150.4	NEM (NEM).	sptrembl Q94543	ND
6585	150.3	HYPOTHETICAL 20.8 KD PROTEIN (FRAGMENT).	sptrembl Q69020	ND
6586	150.2	MAJOR CENTROMERE AUTOANTIGEN B (CENTROMERE PROTEIN B) (CENP-B) (FRAGMENT).	swissnew P49451	ND
6587	150.2	FISSION YEAST (FRAGMENT).	sptrembl P78755	ND
6588	150.2	MULTIDRUG RESISTANCE PROTEIN.	tremblnew AAF15356	ND
6589	150.2	HYPOTHETICAL 42.2 KD PROTEIN.	tremblnew CAB63772	ND
6590	150.2	Human urogenital sinus- derived growth inhibitory factor ps20.	geneseqp W18066	ND
6591	150.2	Immunodominant fragment of flagellar pocket antigen of T. brucei.	geneseqp R85174	ND
6592	150.2	TRANSLATION RELEASE FACTOR SUBUNIT 1.	sptrembl O59948	ND
6593	150.1	KIAA0339.	sptrembl O15047	ND

6594	150.1	T16O11.4 PROTEIN.	tremblnew AAF07827	ND
6595	150.1	SER/ARG-RELATED NUCLEAR MATRIX PROTEIN.	sptrembl O60585	ND
6596	150.0	CYTOCHROME OXIDASE I (FRAGMENT).	sptrembl O21778	ND
6597	150.0	RNA BINDING PROTEIN (FRAGMENT).	tremblnew BAA83714	ND
6598	1496.1	A. oryzae DEBY1058 locus protein sequence.	geneseqp Y39874	Inorganic ion transport and metabolism
6599	1495.3	3-KETOACYL-COA THIOLASE, PEROXISOMAL PRECURSOR (EC 2.3.1.16) (BETA- KETOTHIOLASE) (ACETYL-COA ACYLTRANSFERASE) (PEROXISOMAL 3- OXOACYL- COA THIOLASE).	swissprot Q05493	Lipid metabolism
6600	1495.1	ORYZIN PRECURSOR (EC 3.4.21.63) (ALKALINE PROTEINASE) (ALP) (ASPERGILLUS PROTEINASE B) (ASPERGILLOPEPTIDASE B).	swissprot P12547	Posttranslational modification, protein turnover, chaperones
6601	1494.2	PUTATIVE ARYL- ALCOHOL DEHYDROGENASE AAD14 (EC 1.1.1.-).	swissprot P42884	Energy production and conversion
6602	1494.1	ARGININOSUCCINATE SYNTHASE (EC 6.3.4.5) (CITRULLINE--ASPARTATE LIGASE).	sptrembl O94354	Amino acid transport and metabolism
6603	1493.3	BETA-N- ACETYLHEXOSAMINIDASE PRECURSOR (EC 3.2.1.52).	tremblnew AAF00010	ND
6604	1492.7	AMIDOPHOSPHORIBOSYL TRANSFERASE (EC 2.4.2.14) (GLUTAMINE PHOSPHORIBOSYLPYROPH OSPHATE AMIDOTRANSFERASE) (ATASE).	swissnew Q12698	Nucleotide transport
6606	149.7	61 KD PROTEIN HOMOLOG.	swissprot O10270	ND
6607	149.7	F57H12.6 PROTEIN.	sptrembl O45097	ND
6608	149.6	MATING PROCESS PROTEIN MID2 (SERINE- RICH PROTEIN SMS1) (PROTEIN KINASE A INTERFERENCE PROTEIN).	swissprot P36027	ND
6609	149.6	OMEGA SECALIN	sptrembl O04365	ND
6610	149.6	PUTATIVE EXTENSIN.	sptrembl	ND

			Q9ZNU3	
6611	149.6	Rabphilin-3A.	geneseqp R57421	ND
6612	149.5	HISTONE H1.	swissprot P23444	ND
6613	149.5	Recombinant transcription enhancer factor 1 RTEF-1A.	geneseqp W58599	ND
6614	149.4	AT2G22180 PROTEIN.	tremblnew AAD23622	ND
6615	149.4	PROLINE RICH PROTEIN.	sptrembl O22514	ND
6616	149.3	Human proteasome-inhibiting protein (PI31).	geneseqp Y31376	ND
6617	149.3	GASTRIC MUCIN (FRAGMENT).	sptrembl Q29070	ND
6618	149.3	PROLINE RICH PROTEIN.	sptrembl O22514	ND
6619	149.3	Y18D10A.12 PROTEIN.	sptrembl Q9XW11	ND
6620	149.2	PROTEIN KINASE DC2 (EC 2.7.1.-).	swissprot P16912	ND
6621	149.2	SALIVARY PROLINE-RICH PROTEIN PRECURSOR (CLONE CP7) [CONTAINS: BASIC PEPTIDE P-F] (FRAGMENT).	swissprot P02812	ND
6622	149.2	T7I23.17 PROTEIN.	sptrembl O81911	ND
6623	149.0	RIBOSOMAL PROTEIN S4 (FRAGMENT).	tremblnew CAA58926	ND
6624	149.0	Human Nkx2.2 protein fragment corresponding to exon 2.	geneseqp Y25175	ND
6625	1484.6	ADP-RIBOSYLATION FACTOR.	swissprot P34727	ND
6626	1482.2	GTP-BINDING NUCLEAR PROTEIN GSP2/CNR2.	swissprot P32836	ND
6627	148.9	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
6628	148.9	Human neurofilament-M mutant protein fragment 10.	geneseqp Y20728	ND
6629	148.8	TRANSCRIPTION FACTOR SOX-9.	swissprot P48436	ND
6630	148.8	CHROMOBX HOMOLOG 4 (DROSOPHILA PC CLASS) (TRANSCRIPTIONAL REPRESSOR MPC2).	sptrembl O55187	ND
6631	148.7	Human apolipoprotein E mutant protein fragment 11.	geneseqp Y20298	ND
6632	148.7	Human secreted protein encoded from gene 16.	geneseqp Y30826	ND
6633	148.5	ZINC FINGER PROTEIN GLI3.	swissnew Q61602	ND
6634	148.5	HYPOTHETICAL 35.1 KD PROTEIN.	tremblnew CAB38264	ND
6635	148.4	F23H12.1 PROTEIN.	sptrembl Q19767	ND
6636	148.4	56 KD TYPE-SPECIFIC ANTIGEN PRECURSOR (TSA) (56 KD SCRUB TYPHUS ANTIGEN) (STA56) (TSR56).	swissprot P37916	ND

6637	148.3	OPACITY OUTERMEMBRANE PROTEIN (FRAGMENT).	sptrembl Q51125	ND
6638	148.3	M. grisea PTH12 gene product.	geneseqp Y06786	ND
6639	148.2	CAMP RESPONSE ELEMENT-BINDING PROTEIN CRE-BPA (FRAGMENT).	tremblnew AAC79689	ND
6640	148.2	ENVELOPE POLYPROTEIN GP160 PRECURSOR [CONTAINS: EXTERIOR MEMBRANE GLYCOPROTEIN (GP120); TRANSMEMBRANE GLYCOPROTEIN (GP41)].	swissprot P15831	ND
6641	148.2	Glucose repressor CRE1 of T. harzianum.	geneseqp W13845	ND
6642	148.2	Trypanosoma cruzi antigen repeat sequence.	geneseqp W19102	ND
6643	148.2	Mycobacterium species protein sequence 50B.	geneseqp Y04998	ND
6644	148.1	U2 SMALL NUCLEAR RIBONUCLEOPROTEIN AUXILIARY FACTOR 35 KD SUBUNIT RELATED- PROTEIN 1.	swissprot Q15695	ND
6645	148.1	PUTATIVE ACETYL TRANSFERASE.	tremblnew AAF05992	ND
6646	148.1	AMPHOTROPIC MURINE RETROVIRUS RECEPTOR.	sptrembl Q63488	ND
6647	148.1	40S RIBOSOMAL PROTEIN S4 (S7) (YS6) (RP5).	swissprot P05753	ND
6648	148.0	HYPOTHETICAL 316.1 KD PROTEIN ZC84.1 IN CHROMOSOME III.	swissprot Q03610	ND
6649	1473.8	ALPHA-GLUCOSIDASE (EC 3.2.1.20) (MALTASE).	swissprot Q02751	Carbohydrate transport and metabolism
6650	1472.1	60S RIBOSOMAL PROTEIN L1-B (L10A).	swissprot O74836	Translation, ribosomal structure and biogenesis
6651	1471.7	OSMOTIC SENSITIVITY MAP KINASE.	tremblnew AAF09475	Signal transduction mechanisms
6652	1471.2	BIFUNCTIONAL PURINE BIOSYNTHESIS PROTEIN ADE17 [INCLUDES: PHOSPHORIBOSYLAMINOI MIDAZOLECARBOXAMIDE FORMYLTRANSFERASE (EC 2.1.2.3) (AICAR TRANSFORMYLASE); IMP CYCLOHYDROLASE (EC 3.5.4.10) (INOSINICASE) (IMP SYNTHETASE) (ATIC)].	swissprot P38009	Nucleotide transport

6653	147.9	DLXIN-1.	tremblnew BAA87959	ND
6654	147.9	HCR1.	sptrembl O22112	ND
6655	147.9	PROLINE-RICH PROTEIN.	tremblnew CAB62487	ND
6656	147.8	F22D6.5 PROTEIN.	sptrembl Q19727	ND
6657	147.8	Y53H1A.1 PROTEIN.	tremblnew CAB63392	ND
6658	147.8	PROTEASE.	sptrembl O40637	ND
6659	147.7	MYOSIN LIGHT CHAIN KINASE ISOFORM-I.	sptrembl O01651	ND
6660	147.5	HYDROXYPROLINE-RICH PROTEIN.	sptrembl Q39949	ND
6661	147.5	HYPOTHETICAL 37.9 KD PROTEIN C17D1 05 IN CHROMOSOME II.	swissprot Q10203	ND
6662	147.4	LOW TEMPERATURE ESSENTIAL PROTEIN.	swissprot P07866	ND
6663	147.3	HYPOTHETICAL 79.7 KD PROTEIN (FRAGMENT).	sptrembl Q9Y4Q3	ND
6664	147.3	Prod. of DNA of pMG07 used to isolate style-stigma specific gene STG07.	geneseqp R10531	ND
6665	147.3	T23F1.5 PROTEIN.	sptrembl O18117	ND
6666	147.3	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q41814	ND
6667	147.3	DNA-DIRECTED RNA POLYMERASE II LARGE (205KD) SUBUNIT (EC 2.7.7.6) (FRAGMENT).	sptrembl Q99367	ND
6668	147.2	3-ISOPROPYLMALATE DEHYDROGENASE (LEUB).	sptrembl Q51345	ND
6669	147.2	HYPOTHETICAL 34.9 KD PROTEIN.	sptrembl O65548	ND
6670	147.1	HYDROPHOBIN COH2.	sptrembl P78602	ND
6671	147.1	CODED FOR BY C. ELEGANS CDNA YK102F9.3.	sptrembl O01593	ND
6672	147.0	PUTATIVE ARGININE/SERINE-RICH SPLICING FACTOR.	sptrembl O82021	ND
6673	147.0	HYPOTHETICAL 50.7 KD PROTEIN.	tremblnew AAD49204	ND
6674	146.7.3	ATP CITRATE LYASE.	sptrembl O93988	ND
6675	146.1.7	Mutant Aspergillus oryzae DEBY932 rescued locus.	geneseqp W37992	Carbohydrate transport and metabolism
6677	146.9	HYPOTHETICAL 22.8 KD PROTEIN.	tremblnew AAF11733	ND
6678	146.9	ZHB0005.1.	tremblnew CAB55413	ND
6679	146.8	HYPOTHETICAL 96.1 KD PROTEIN IN RIM1-RPS14A INTERGENIC REGION.	swissprot P25623	ND
6680	146.8	ARGININE/SERINE-RICH PROTEIN.	tremblnew AAF19004	ND
6681	146.7	GASTRIC MUCIN	sptrembl Q29071	ND

		(FRAGMENT).		
6682	146.7	TRANSPOSABLE ELEMENT ACTIVATOR HYPOTHETICAL 12 KD PROTEIN (AC 12 KD PROTEIN).	swissprot P08771	ND
6683	146.6	HYPOTHETICAL 102.5 KD PROTEIN B0001.5 IN CHROMOSOME IV.	sptrembl Q17414	ND
6684	146.5	HYPOTHETICAL 72.1 KD PROTEIN.	sptrembl O23333	ND
6685	146.5	SPLICEOSOME ASSOCIATED PROTEIN 62 (SAP 62) (SF3A66).	swissprot Q62203	ND
6686	146.5	CTG26 ALTERNATE OPEN READING FRAME (FRAGMENT).	sptrembl O15421	ND
6687	146.3	FUSION PROTEIN.	sptrembl Q9YTP6	ND
6688	146.3	32 KDA PROTEIN.	sptrembl O09501	ND
6689	146.3	SEC24A PROTEIN (FRAGMENT).	sptrembl O95486	ND
6690	146.2	COLLAGEN (FRAGMENT).	sptrembl Q17266	ND
6691	146.2	Mycobacterium species protein sequence 41T#3.	geneseqp Y04955	ND
6692	146.1	DNA-BINDING PROTEIN.	sptrembl P87016	ND
6693	146.1	EXTENSIN PRECURSOR (PROLINE-RICH GLYCOPROTEIN).	swissprot P14918	ND
6694	146.1	COLLAGEN ALPHA 1(X) CHAIN PRECURSOR.	swissprot P23206	ND
6695	146.0	ORF MSV234 HYPHETICAL PROTEIN.	sptrembl Q9YVK9	ND
6696	146.0	PUTATIVE PROLINE-RICH PROTEIN.	sptrembl Q9ZW08	ND
6697	146.0	PHYTOCHROME A.	swissprot P06592	ND
6698	146.0	EXTENSIN.	sptrembl Q39600	ND
6699	1459.6	BETA-MANNOSIDASE (EC 3.2.1.25).	tremblnew CAB63902	ND
6700	1458.3	1,3-BETA-D-GLUCAN SYNTHASE CATALYTIC SUBUNIT.	sptrembl Q92225	ND
6701	1457.4	MALATE SYNTHASE, GLYOXYSOMAL (EC 4.1.3.2).	swissnew P28344	Energy production and conversion
6702	1455.0	MODA.	tremblnew AAF24514	ND
6703	1450.9	ADP-RIBOSYLATION FACTOR.	swissprot P34727	ND
6704	145.9	LEUCYL AMINOPEPTIDASE, PUTATIVE.	tremblnew AAF10295	ND
6705	145.9	ENDOSTYLE-SPECIFIC.	sptrembl O44238	ND
6706	145.8	CODED FOR BY C. ELEGANS CDNA YK24B4.5.	sptrembl Q23064	ND
6707	145.8	HISTIDINE-RICH.	sptrembl Q18751	ND
6708	145.8	PANCREATIC HORMONE	swissprot P13083	ND

		PRECURSOR (PANCREATIC POLYPEPTIDE) (PP).		
6709	145.7	INTRONIC ORF6 (FRAGMENT).	sptrembl O79867	ND
6710	145.7	Fusaric acid resistance protein encoded by fadB.	geneseqp R13839	ND
6711	145.7	Human oncoprotein hhc-M mutant protein #3.	geneseqp W40357	ND
6712	145.4	HYPOTHETICAL 23.0 KD PROTEIN.	sptrembl O94539	ND
6713	145.4	HYPOTHETICAL 14.4 KD PROTEIN.	tremblnew AAF11093	ND
6714	145.4	HYPOTHETICAL 56.0 KD PROTEIN.	sptrembl O66965	ND
6715	145.4	Secreted protein of clone B0114_1.	geneseqp W69339	ND
6716	145.4	ARGININE-RICH 54 KD NUCLEAR PROTEIN.	sptrembl Q05519	ND
6717	145.3	YUSZ PROTEIN.	sptrembl O34907	ND
6718	145.3	CCA2 PROTEIN.	sptrembl O35048	ND
6719	145.2	144AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YD73	ND
6720	145.2	OLFACTORY RECEPTOR (FRAGMENT).	sptrembl Q9Z232	ND
6721	145.1	SPERM HISTONE P2 PRECURSOR (PROTAMINE 2).	sptrembl Q02097	ND
6722	145.0	FIN19.3.	tremblnew AAF19693	ND
6723	145.0	COPROPORPHYRINOGEN III OXIDASE PRECURSOR (EC 1.3.3.3) (COPROPORPHYRINOGENASE) (COPROGEN OXIDASE) (COX).	swissprot P36551	ND
6724	1449.1	PEROXISOME ASSEMBLY PROTEIN CAR1 (PEROXIN-2).	swissprot P51021	ND
6725	1449.0	NAD-SPECIFIC GLUTAMATE DEHYDROGENASE (EC 1.4.1.2) (NAD-GDH) (FRAGMENTS).	swissprot P00365	Amino acid transport and metabolism
6726	1448.4	60S RIBOSOMAL PROTEIN L2.	sptrembl O94253	Translation, ribosomal structure and biogenesis
6727	1445.5	60S RIBOSOMAL PROTEIN L2 (YL6) (L5) (RP8).	swissprot P05736	Translation, ribosomal structure and biogenesis
6728	1444.9	Aspergillus fumigatus protein 3.	geneseqp W69392	Amino acid transport and metabolism
6729	1443.0	26S PROTEASE REGULATORY SUBUNIT 8 HOMOLOG (SUG1	swissprot Q01939	Posttranslational modification, protein turnover,

		PROTEIN) (CIM3 PROTEIN) (TAT-BINDING PROTEIN TBY1).		chaperones
6730	1442.1	EPOXIDE HYDROLASE (EC 3.3.2.3).	tremblnew CAB59812	ND
6731	144.8	LWS OPSIN.	sptrembl Q9W771	ND
6732	144.7	Banana ripening fruit chitinase.	geneseqp Y05847	ND
6733	144.7	(AG876 ISOLATE) U2-IR2 DOMAIN ENCODING NUCLEAR PROTEIN EBNA2, COMPLETE CDS.	sptrembl Q69022	ND
6734	144.6	CODED FOR BY C. ELEGANS CDNA YK91G9.5.	sptrembl Q21721	ND
6735	144.6	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN PRECURSOR (FRAGMENT).	sptrembl Q40548	ND
6736	144.6	LSFR1 PROTEIN (FRAGMENT).	sptrembl Q9W6U3	ND
6737	144.5	MYCB.	tremblnew AAF08796	ND
6738	144.5	PROBABLE MANNOSYLTRANSFERASE KTR5 (EC 2.4.1.131).	swissprot P53966	ND
6739	144.5	HYPOTHETICAL 50.6 KD PROTEIN IN THE 5'REGION OF GYRA AND GYRB (ORF 3).	swissprot P21561	ND
6740	144.5	Thyroid peroxidase deletion mutant 10.	geneseqp W48791	ND
6741	144.4	FILAGGRIN (PROFILAGGRIN) (FRAGMENT).	sptrembl Q03840	ND
6742	144.3	Murine secreted protein K39.7.	geneseqp Y08631	ND
6743	144.3	P2X2 RECEPTOR (FRAGMENT).	sptrembl O88481	ND
6744	144.1	Human interferon alpha2/omega1(Glu) hybrid.	geneseqp R24030	ND
6745	144.0	R12E2.5 PROTEIN.	sptrembl O61787	ND
6746	144.0	BETA-GALACTOSIDASE ALPHA PEPTIDE (FRAGMENT).	sptrembl Q46478	ND
6747	144.0	COMPLETE GENOME (FRAGMENT).	sptrembl O41250	ND
6748	1437.3	PROBABLE CALCIUM- TRANSPORTING ATPASE 6 (EC 3.6.1.38).	swissprot P39986	Inorganic ion transport and metabolism
6749	1434.1	PROLYL DIPEPTIDYL PEPTIDASE PRECURSOR (EC 3.4.14.5) (DIPEPTIDYL- PEPTIDASE IV) (DIPEPTIDYL AMINOPEPTIDASE IV) (XAA-PRO- DIPEPTIDYLAMINOPEPTID ASE) (GLY-PRO	sptrembl O42812	Amino acid transport and metabolism

		NAPHTHYLAMIDASE) (POST-PROLINE DIPEPTIDYL AMINOPEPTIDASE IV).		
6750	143.9	PUTATIVE PROLINE-RICH PROTEIN.	tremblnew CAB43973	ND
6751	143.9	N-MYC PROTO-ONCOGENE PROTEIN.	swissprot P03966	ND
6752	143.9	Bovine prion protein derived peptide III.	geneseqp Y07999	ND
6753	143.8	Protein encoded by pLIV1 gene partial sequence.	geneseqp W34528	ND
6754	143.8	HEPATITIS A VIRUS CELLULAR RECEPTOR 1 LONG FORM (HEPATITIS A VIRUS CELLULAR RECEPTOR 1 SHORT FORM).	sptrembl O46597	ND
6755	143.8	HRSMAD1/5.	sptrembl O97044	ND
6756	143.8	SERUM OPACITY FACTOR PRECURSOR (FRAGMENT).	sptrembl Q9XCK5	ND
6757	143.8	F45B8.3 PROTEIN.	tremblnew CAB05726	ND
6758	143.8	NADH DEHYDROGENASE SUBUNIT 4 (FRAGMENT).	tremblnew AAF17853	ND
6759	143.8	EXTENSIN (PROLINE-RICH GLYCOPROTEIN) (CLONE UG) (FRAGMENT).	sptrembl Q01944	ND
6760	143.7	HTLV-1 RELATED ENDOGENOUS RETROVIRAL SEQUENCE P25 (HRES-1/1).	sptrembl P13985	ND
6761	143.7	NUCLEAR FACTOR I-B2 (NUCLEAR FACTOR 1 B- TYPE).	sptrembl O00712	ND
6762	143.7	HOMEBOX PROTEIN GOOSECOID.	swissnew P54366	ND
6763	143.7	Y47H9B.1 PROTEIN.	sptrembl Q9XWZ7	ND
6764	143.6	LW OPSIN (FRAGMENT).	sptrembl Q28879	ND
6765	143.5	HYPOTHETICAL 45.9 KD PROTEIN AC3.3 IN CHROMOSOME V PRECURSOR.	sptrembl Q17400	ND
6766	143.5	Rat rSK2 protein.	geneseqp W63702	ND
6767	143.5	F07A5.2 PROTEIN.	sptrembl Q19138	ND
6768	143.4	PROTAMINE.	swissprot P17502	ND
6769	143.4	MITOCHONDRIAL TRANSFER RNA HIS, 16S RIBOSOMAL RNA (16S RRNA) GENES. ND3 (16S RRNA).	sptrembl Q35014	ND
6770	143.3	HYPOTHETICAL 34.6 KD PROTEIN.	sptrembl Q9Y7R6	ND
6771	143.3	GROUCHO 1 PROTEIN (FRAGMENT).	swissprot O13168	ND

6772	143.3	SERICIN PRECURSOR.	swissprot P07856	ND
6774	143.3	SERINE-RICH PROTEIN.	sptrembl O94317	ND
6775	143.2	ARGININE/SERINE-RICH PROTEIN.	tremblnew AAF19004	ND
6776	143.2	SALIVARY GLAND SECRETION PROTEIN (FRAGMENT).	sptrembl Q9Y0E8	ND
6777	143.2	P28II antigen.	geneseqp P82966	ND
6778	143.1	STRAIN Z29, COMPLETE GENOME.	tremblnew AAD49620	ND
6779	143.1	Collagen like protein (CLP)-VI.	geneseqp R95144	ND
6780	143.0	Z10F PROTEIN.	sptrembl O87025	ND
6781	1427.2	SULFATE PERMEASE SUBT.	tremblnew AAF14539	Inorganic ion transport and metabolism
6782	1421.8	MALATE SYNTHASE, GLYOXYSOMAL (EC 4.1.3.2).	swissnew P28345	Energy production and conversion
6783	1420.4	PROTEIN TRANSPORT PROTEIN SEC23 HOMOLOG.	sptrembl O74873	ND
6784	1420.4	60S RIBOSOMAL PROTEIN L15.	swissprot O13418	Translation, ribosomal structure and biogenesis
6785	142.9	C29F7.5 PROTEIN.	sptrembl O17617	ND
6786	142.9	Drosophila Acp36DE protein.	geneseqp Y22176	ND
6787	142.8	GIBBERELLIN-REGULATED PROTEIN 1 PRECURSOR.	swissprot P46689	ND
6788	142.8	NADH-UBIQUINONE OXIDOREDUCTASE SUBUNIT 1.	tremblnew CAB55576	ND
6789	142.7	PISTIL EXTENSIN-LIKE PROTEIN.	sptrembl Q40385	ND
6790	142.7	SANT DOMAIN PROTEIN SMRTER.	tremblnew AAD52614	ND
6791	142.7	ALDEHYDE DEHYDROGENASE, CYTOCHROME C SUBUNIT PRECURSOR.	sptrembl O30327	ND
6792	142.7	Y49E10.17 PROTEIN.	sptrembl Q9XTU4	ND
6793	142.7	CODED FOR BY C. ELEGANS CDNA YK65E4.5.	sptrembl P91497	ND
6794	142.7	DEFORMED (FRAGMENT).	sptrembl O44258	ND
6795	142.7	MUCIN.	sptrembl Q63549	ND
6796	142.7	HISTONE H1 PROTEIN.	sptrembl Q9XYY5	ND
6797	142.7	PROTEIN UL53 (HFRF2 PROTEIN).	swissprot P16794	ND
6798	142.6	F14M4.8 PROTEIN.	sptrembl O80716	ND
6799	142.6	HPLC6 PROTEIN (FRAGMENT).	sptrembl Q03659	ND
6800	142.6	LIMA (FRAGMENT).	sptrembl P90533	ND
6801	142.6	PHOSPHOGLUCOMUTASE.	sptrembl O74374	ND

6802	142.6	Papilloma virus major capsid protein.	geneseqp R88275	ND
6803	142.5	VERY HYPOTHETICAL 14.3 KD PROTEIN IN AAC1-FET3 INTERGENIC REGION.	swissprot Q04674	ND
6804	142.5	ORF 59.	sptrembl Q9YTK8	ND
6805	142.5	PRPL-2 PROTEIN.	sptrembl Q15220	ND
6806	142.4	SMALL S PROTEIN.	sptrembl O55496	ND
6807	142.4	INSECT INTESTINAL MUCIN IIM14.	sptrembl O18510	ND
6808	142.4	EG:140G11.3 PROTEIN.	sptrembl O97172	ND
6809	142.4	ALLERGEN.	sptrembl O74682	ND
6810	142.4	PYRROLIDONE-CARBOXYLATE PEPTIDASE (EC 3.4. 19.3) (5-OXOPROLYL-PEPTIDASE) (PYROGLUTAMYL-PEPTIDASE I).	tremblnew CAB50353	ND
6811	142.3	RNA-BINDING PROTEIN.	sptrembl Q15287	ND
6812	142.2	LIN-15B PROTEIN.	sptrembl Q27395	ND
6813	142.2	F23N19.12.	tremblnew AAF19547	ND
6814	142.2	AXOTROPHIN.	sptrembl Q9WV66	ND
6815	142.2	Porphorymonas gingivalis protein PG121.	geneseqp Y34466	ND
6816	142.2	HYPOTHETICAL 32.1 KD PROTEIN.	sptrembl O74387	ND
6817	142.2	Clone HNFGW06 of EGFR receptor family.	geneseqp W61630	ND
6818	142.2	NUCLEOPORIN-LIKE PROTEIN.	sptrembl O23173	ND
6819	142.1	AMELOGENIN (FRAGMENT).	swissprot O97647	ND
6820	142.0	PAX6-LIKE PROTEIN.	sptrembl Q25411	ND
6821	142.0	SER- AND THR-RICH PROTEIN (FRAGMENT).	sptrembl Q26596	ND
6822	142.0	SCO-SPONDIN (FRAGMENT).	sptrembl Q9XSV8	ND
6823	1416.2	60S ACIDIC RIBOSOMAL PROTEIN P0 (L10E).	swissprot P05317	Translation, ribosomal structure and biogenesis
6824	1411.8	THIOREDOXIN REDUCTASE (EC 1.6.4.5).	swissprot P43496	Posttranslational modification, protein turnover, chaperones
6825	141.9	HYPOTHETICAL 39.0 KD PROTEIN.	sptrembl O74371	ND
6826	141.9	F17L21.1.	sptrembl Q9ZW67	ND
6827	141.9	60S RIBOSOMAL PROTEIN L7, MITOCHONDRIAL PRECURSOR (YML7).	swissprot P36519	ND
6828	141.8	ACTIVATING TRANSCRIPTION FACTOR	sptrembl Q91576	ND

		2.		
6829	141.8	HYPOTHETICAL 27.8 KD PROTEIN.	sptrembl O54181	ND
6830	141.8	Amino acid sequence of a virulence factor encoded by ORF30221.	geneseqp Y29214	ND
6831	141.7	CASEIN KINASE II BETA' CHAIN (CK II) (EC 2.7.1.37).	swissprot P38930	ND
6832	141.7	EXTENSIN=NODULE-SPECIFIC PROLINE-RICH PROTEIN {CLONE VFNDSE}.	tremblnew G425682	ND
6833	141.7	Human 5' EST secreted protein SEQ ID NO:344.	geneseqp Y12313	ND
6834	141.6	VI-Iab-Vh construction (5A). single chain antibody.	geneseqp R14698	ND
6835	141.6	HYPOTHETICAL PROTEIN (FRAGMENT).	sptrembl Q17269	ND
6836	141.6	PLENTY-OF-PROLINES-101.	sptrembl O70495	ND
6837	141.6	PLENTY-OF-PROLINES-101.	sptrembl O70495	ND
6838	141.5	TIJ1.3 PROTEIN.	sptrembl Q9ZPH7	ND
6839	141.3	F16B22.21 PROTEIN.	sptrembl O80511	ND
6840	141.3	130AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YD79	ND
6841	141.2	PUTATIVE SERINE/THREONINE PROTEIN KINASE.	sptrembl Q9ZNQ8	ND
6842	141.1	AGR RELATED DNA SEQUENCE, TWO COMPLETE CODING REGIONS AND TWO INCOMPLETE CODING REGIONS.	sptrembl Q54337	ND
6843	141.1	MICROTUBULE-ASSOCIATED PROTEIN 4.	swissprot P27546	ND
6844	141.1	Keratan sulphate 6-sulphotransferase.	geneseqp W61100	ND
6845	141.1	PUTATIVE.	sptrembl Q9ZLR2	ND
6846	141.1	HYPOTHETICAL 40.9 KD PROTEIN C08B11.5 IN CHROMOSOME II.	swissprot Q09442	ND
6847	141.0	A_IG002N01.14.	sptrembl O04621	ND
6848	141.0	R. eutropha Mgt partial ORF3 encoded protein.	geneseqp W92640	ND
6849	141.0	F56D12.5 PROTEIN.	sptrembl O16646	ND
6850	141.0	PEPTIDE FOLLOWING ISV-A1.	sptrembl Q48355	ND
6851	141.0	Cardiac adenylyl cyclase.	geneseqp R78519	ND
6852	141.0	PUTATIVE 60S RIBOSOMAL PROTEIN L24.	tremblnew AAD24643	ND
6853	1406.7	PUTATIVE YEAST CELL DIVISION CONTROL PROTEIN 68 HOMOLOG, PUTATIVE TRANSCRIPTIONAL ACTIVATOR.	sptrembl O94267	ND

6854	1405.2	PROTEASOME COMPONENT PUP1 PRECURSOR (EC 3.4.99.46) (MACROPAIN SUBUNIT PUP1) (PROTEINASE YSCE SUBUNIT PUP1) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT PUP1).	swissprot P25043	Posttranslational modification, protein turnover, chaperones
6855	1405.1	BETA-GLUCOSIDASE I PRECURSOR (EC 3.2.1.21) (GENTIOBIASE) (CELLOBIASE) (BETA-D-GLUCOSIDE GLUCOHYDROLASE).	swissprot P48825	ND
6856	1401.2	HYPOTHETICAL 126.6 KD PROTEIN IN RPL36A-VT11 INTERGENIC REGION.	swissprot Q04336	ND
6857	140.9	Human normal ovarian tissue derived protein 68.	geneseqp Y59791	ND
6858	140.9	HYPOTHETICAL 61.1 KD PROTEIN (FRAGMENT).	tremblnew CAB63715	ND
6859	140.9	F56D12.5 PROTEIN.	sptrembl O16646	ND
6860	140.8	EG:63B12.11 PROTEIN.	sptrembl O97419	ND
6861	140.8	HYPOTHETICAL 6.0 KD PROTEIN IN TH112 5'REGION.	swissprot P53820	ND
6862	140.8	120 KDA STYLE GLYCOPROTEIN.	sptrembl O49986	ND
6863	140.8	TRANSGLUTAMINASE PRECURSOR (EC 2.3.2.13).	tremblnew CAA70055	ND
6864	140.6	SIMILARITY TO HUMAN SYNAPSIN IB.	sptrembl Q23352	ND
6865	140.6	SRC2-LIKE PROTEIN.	sptrembl O81814	ND
6866	140.6	ER interacting domain of AIB1 protein.	geneseqp W81028	ND
6867	140.6	CZP-3.	geneseqp R48068	ND
6868	140.5	Porcine retrovirus GAG protein.	geneseqp W39271	ND
6869	140.5	HYPOTHETICAL 91.1 KD PROTEIN R144.2 IN CHROMOSOME III.	swissprot Q09345	ND
6870	140.5	SERINE/THREONINE PROTEIN KINASE.	sptrembl O32382	ND
6871	140.4	ORF115.	sptrembl Q37123	ND
6872	140.4	Fragment of human secreted protein encoded by gene 76.	geneseqp W78321	ND
6873	140.4	MEROZOITE SURFACE PROTEIN-1 (FRAGMENT).	tremblnew AAD49716	ND
6874	140.4	ENVELOPE PROTEIN (FRAGMENT).	sptrembl O73231	ND
6875	140.4	PROTODERMAL FACTOR 1.	tremblnew AAD33869	ND
6876	140.3	ALXA AND HSDM.	sptrembl P95510	ND
6877	140.3	COUNTERPART OF HSV-1 GENE RL2 AND VZV GENE 61.	sptrembl O39303	ND

6878	140.3	ANTIGENIC POLYPEPTIDE (FRAGMENT).	sptrembl O96082	ND
6879	140.3	HYPOTHETICAL 30.9 KD PROTEIN B1549_C2_213.	swissnew P52063	ND
6880	140.3	CARROT HYPOCOTIL SPECIFIC.	sptrembl P93705	ND
6881	140.3	SIGNAL RECOGNITION PARTICLE 19 KD PROTEIN (SRP19).	swissprot P49964	ND
6882	140.3	HYPOTHETICAL 41.1 KD PROTEIN.	tremblnew CAB51986	ND
6883	140.3	P2V PROTEIN.	sptrembl O89170	ND
6884	140.2	HYPOTHETICAL 90.0 KD PROTEIN.	sptrembl Q9WQH0	ND
6885	140.2	MG1-HIGH MOLECULAR WEIGHT MUCIN {3' REGION (FRAGMENT).	sptrembl Q93043	ND
6886	140.2	HLARK.	sptrembl O02916	ND
6887	140.2	SPERM CHROMATIN HMRBNP/H1.	sptrembl Q98979	ND
6888	140.1	SPLICING FACTOR, ARGININE/SERINE-RICH 6 (PRE-MRNA SPLICING FACTOR SRP55).	swissnew Q13247	ND
6889	140.1	SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 1 (CT1).	swissprot P31661	ND
6890	140.1	HYPOTHETICAL 47.8 KD PROTEIN YOR009W.	sptrembl Q12218	ND
6891	140.0	DESB (EC 3.5.4.5).	tremblnew AAD30442	ND
6892	140.0	HYPOTHETICAL PROTEIN E-115.	swissprot P03290	ND
6893	1393.7	HYPOTHETICAL 38.3 KD PROTEIN IN RPL11B-PDC6 INTERGENIC REGION.	swissprot P53252	ND
6894	1393.0	PUTATIVE MITOCHONDRIAL PROTEIN IMPORT PROTEIN - DNAJ PROTEIN.	sptrembl O74752	Posttranslational modification, protein turnover, chaperones
6895	1392.9	VACUOLAR ATP SYNTHASE SUBUNIT B (EC 3.6.1.34) (V-ATPASE 57 KD SUBUNIT).	swissprot P22550	Energy production and conversion
6896	1390.1	ORNITHINE DECARBOXYLASE.	tremblnew CAB56523	Amino acid transport and metabolism
6897	139.8	CYCLIC NUCLEOTIDE-GATED CHANNEL BETA SUBUNIT.	sptrembl O35788	ND
6898	139.8	Toxic shock syndrome toxin-1.	geneseqp R95904	ND
6899	139.7	HYPOTHETICAL 18.3 KD PROTEIN ZK1321.1 IN CHROMOSOME II.	swissprot Q09368	ND
6900	139.7	OUTER CAPSID PROTEIN VP4 (HEMAGGLUTININ) (OUTER LAYER PROTEIN	swissprot P13842	ND

		VP4) [CONTAINS: OUTER CAPSID PROTEINS VP5 AND VP8].		
6901	139.7	464AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YEB8	ND
6902	139.7	HYPOTHETICAL 91.0 KD PROTEIN.	sptrembl Q9X4P5	ND
6903	139.6	HYPOTHETICAL 96.9 KD PROTEIN.	tremblnew CAA22569	ND
6904	139.6	IMMUNOGLOBULIN 216 aa, chain A+B	pdb 1MCJ	ND
6905	139.5	202AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9Y9D4	ND
6906	139.5	HYPOTHETICAL 13.9 KD PROTEIN.	tremblnew AAF19661	ND
6907	139.5	PHLB PROTEIN PRECURSOR.	swissprot P18954	ND
6908	139.5	HYPOTHETICAL 14.6 KD PROTEIN.	sptrembl O53621	ND
6909	139.4	F18B13.26 PROTEIN.	tremblnew AAD55474	ND
6910	139.3	CELL WALL PROTEIN.	sptrembl Q40336	ND
6911	139.3	VIRAL PROTEIN 1 (FRAGMENT).	sptrembl Q85146	ND
6912	139.3	T2N18.14 PROTEIN.	sptrembl Q9ZQC7	ND
6913	139.3	SIMILARITY TO C2H2-TYPE ZINC FINGER DOMAIN.	sptrembl Q17548	ND
6914	139.3	22 KD GAMMA-COIXIN PRECURSOR.	sptrembl Q00318	ND
6915	139.3	DIHYDROOROTASE (EC 3.5.2.3) (DHOASE).	swissprot P96081	ND
6916	139.3	deg-3 gene product.	geneseqp R42747	ND
6917	139.2	C09G9.2 PROTEIN.	sptrembl Q17872	ND
6918	139.1	RECEPTOR-LIKE KINASE LRK10 (FRAGMENT).	sptrembl Q9XHQ3	ND
6919	139.1	COSMID F56D3.	sptrembl Q20877	ND
6920	139.0	GLUCOAMYLASE.	tremblnew AAC49609	ND
6921	139.0	SUBMAXILLARY GLAND ANDROGEN REGULATED PROTEIN 3 PRECURSOR (MSG3 MRNA).	sptrembl Q61902	ND
6922	139.0	XNP-1.	tremblnew AAD55361	ND
6923	139.0	NAPF	sptrembl O86474	ND
6924	139.0	TRANSCRIPTION INITIATION FACTOR IIE BETA SUBUNIT (TFIIE-BETA) (S.POMBE TFA2 HOMOLOG)	sptrembl P79011	ND
6925	139.0	DJ789O11.1 (PUTATIVE GAMMA-HEREGULIN LIKE PROTEIN) (FRAGMENT).	sptrembl O75999	ND
6926	1387.7	ACTIN-LIKE PROTEIN ARP2.	swissprot P32381	Cell division and chromosome

				partitioning
6927	1386.5	OROTIDINE 5'-PHOSPHATE DECARBOXYLASE (EC 4.1.1.23) (OMP DECARBOXYLASE).	swissprot O13416	Nucleotide transport
6928	1383.8	ANTHRANILATE SYNTHASE COMPONENT I (EC 4.1.3.27).	swissprot P00899	Coenzyme metabolism
6929	138.9	SERINE HYDROXYMETHYLTRANS FERASE (EC 2.1.2.1) (SERINE METHYLASE) (SHMT).	swissprot O29406	ND
6930	138.9	EG-114E2.2 PROTEIN.	sptrembl O46042	ND
6931	138.9	LONG-CHAIN-FATTY-ACID COA LIGASE.	sptrembl P73004	ND
6932	138.9	GLUCOSE TRANSPORTER TYPE 4, INSULIN- RESPONSIVE.	swissprot Q27994	ND
6933	138.9	HYPOTHETICAL PROTEIN (FRAGMENT).	sptrembl P72068	ND
6934	138.8	SIMILARITY TO RHODOPSIN.	sptrembl Q19607	ND
6935	138.8	HISTONE H1.2.	sptrembl Q94555	ND
6936	138.8	ORF79 PROTEIN.	tremblnew BAA84914	ND
6937	138.8	OVERLAPPING PROTEIN.	sptrembl O91259	ND
6938	138.7	METALLOTHIONEIN ISOFORM (FRAGMENT).	sptrembl P79375	ND
6939	138.7	PTS SYSTEM, CELLOBIOSE-SPECIFIC IIC COMPONENT (EIIC-CEL) (CELLOBIOSE- PERMEASE IIC COMPONENT) (PHOSPHOTRANSFERASE ENZYME II, C COMPONENT).	swissprot Q45400	ND
6940	138.6	N-MYC 2 PROTO- ONCOGENE PROTEIN.	swissprot Q64210	ND
6941	138.6	hCG/hFSH chimera. B12.	geneseqp R15072	ND
6942	138.6	BETA-B-PROTEIN.	sptrembl Q85079	ND
6943	138.6	Bovine neutrophil beta- defensin peptide BNBD-5.	geneseqp R63514	ND
6944	138.5	Neuropeptide receptor.	geneseqp W06124	ND
6945	138.5	MAD HOMOLOG SMAD5.	sptrembl P97454	ND
6946	138.5	Autotaxin derived from human liver cells.	geneseqp R86580	ND
6947	138.4	HYPOTHETICAL 65.2 KD PROTEIN.	sptrembl O61105	ND
6948	138.4	GENTISATE 1,2- DIOXYGENASE (FRAGMENT).	sptrembl O73956	ND
6949	138.3	HIV Tat protein.	geneseqp Y05097	ND
6950	138.2	E2 GLYCOPROTEIN PRECURSOR (SPIKE GLYCOPROTEIN)	swissprot P11223	ND

		(PEPLOMER PROTEIN) [CONTAINS: SPIKE PROTEIN S1; SPIKE PROTEIN S2].		
6951	138.1	ATP SYNTHASE PROTEIN 8 (EC 3.6.1.34) (A6L).	swissprot P03929	ND
6952	138.1	HOMEBOX PROTEIN HOX-A10 (HOX-1H) (HOX- 1.8) (PL).	swissnew P31260	ND
6953	138.0	SERINE-RICH PROTEIN.	sptrembl O94317	ND
6954	1376.9	ACETYL-COENZYME A SYNTHETASE (EC 6.2.1.1) (ACETATE--COA LIGASE) (ACYL- ACTIVATING ENZYME).	swissprot P16928	Lipid metabolism
6955	1373.9	PHOSPHATE-REPRESSIBLE PHOSPHATE PERMEASE.	swissprot P15710	Inorganic ion transport and metabolism
6956	137.9	KIAA1048 PROTEIN.	tremblnew BAA83000	ND
6957	137.9	HYPOTHETICAL PROTEIN.	tremblnew BAA87840	ND
6958	137.8	HOMEOTIC CAUDAL PROTEIN.	swissprot P09085	ND
6959	137.8	POSTSYNAPTIC DENSITY PROTEIN.	tremblnew AAC25483	ND
6960	137.8	HYPOTHETICAL 14.7 KD PROTEIN.	sptrembl O33136	ND
6961	137.8	HYPOTHETICAL 14.2 KD PROTEIN.	tremblnew AAF10317	ND
6962	137.8	SENSOR KINASE.	sptrembl O34757	ND
6963	137.7	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN PRECURSOR (FRAGMENT).	sptrembl Q40548	ND
6964	137.7	ENDOSTYLE-SPECIFIC.	sptrembl O44238	ND
6965	137.6	PUTATIVE CARBOXYPEPTIDASE S PRECURSOR (EC 3.4.17.4) (YSCS) (GLY-X CARBOXYPEPTIDASE).	sptrembl O13968	ND
6966	137.5	SMALL NUCLEAR RIBONUCLEOPROTEIN B.	tremblnew AAD54488	ND
6967	137.5	OMP of Bordetella pertussis.	geneseqp R21691	ND
6968	137.5	LIPID TRANSFER PROTEIN.	sptrembl O22110	ND
6969	137.5	HYPOTHETICAL 18.9 KD PROTEIN.	sptrembl Q55554	ND
6970	137.5	HYPOTHETICAL 32.8 KD PROTEIN (FRAGMENT).	tremblnew CAB59245	ND
6971	137.4	NUCLEAR TRANSITION PROTEIN 2 (TP-2).	sptrembl Q64561	ND
6972	137.3	MAMMALIAN ACYL COA OXIDASE HOMOLOGOUS (FRAGMENT).	sptrembl Q43476	ND
6973	137.3	TRANSCRIPTION FACTOR SOX-10.	swissprot O55170	ND
6974	137.3	HYPOTHETICAL 28.1 KD PROTEIN.	sptrembl O23285	ND

6975	137.2	PHOSPHOLIPASE D2.	sptrembl O43580	ND
6976	137.2	GLUCOAMYLASE S1/S2 PRECURSOR (EC 3.2.1.3) (GLUCAN 1,4-ALPHA- GLUCOSIDASE) (1,4- ALPHA-D-GLUCAN GLUCOHYDROLASE).	swissprot P08640	ND
6977	137.2	DIPEPTIDE ABC TRANSPORTER, ATP- BINDING PROTEIN (DPPF).	sptrembl O28503	ND
6978	137.1	INSULIN RECEPTOR SUBSTRATE-2.	sptrembl Q9Y615	ND
6979	137.1	DESSICATION-RELATED PROTEIN CLONE PCC6-19 (CDET6-19).	swissprot P22239	ND
6980	1366.0	UBIQUITIN-CONJUGATING ENZYME E2-16 KD (EC 6.3.2.19) (UBIQUITIN- PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN) (COLLETOTRICHUM HARD- SURFACE- INDUCED PROTEIN 1).	sptrembl O74196	ND
6981	1364.6	TRANSALDOLASE (EC 2.2.1.2).	sptrembl O42700	Carbohydrate transport and metabolism
6982	1355.4	METHYLCITRATE SYNTHASE PRECURSOR (EC 4.1.3.31).	tremblnew CAB53336	Energy production and conversion
6983	1354.5	100 KDA PROTEIN.	sptrembl O60040	ND
6984	1352.3	A. oryzae DEBY932 locus protein sequence.	geneseq Y39873	Carbohydrate transport and metabolism
6985	1352.2	MITOCHONDRIAL CARRIER PROTEIN.	sptrembl O74439	ND
6986	1352.2	PYRUVATE KINASE (EC 2.7.1.40) (PK).	swissprot P22360	Carbohydrate transport and metabolism
6987	1348.0	CYTOCHROME C OXIDASE SUBUNIT V.	sptrembl O93980	ND
6988	1346.7	ALPHA-GALACTOSIDASE A PRECURSOR (EC 3.2.1.22) (MELIBIASE).	swissprot P28351	ND
6989	1344.2	HYPOTHETICAL ALDEHYDE- DEHYDROGENASE LIKE PROTEIN IN COQ1-HHF1 INTERGENIC REGION.	swissprot P38067	Energy production and conversion
6990	1341.2	POTASSIUM TRANSPORTER.	sptrembl O74724	ND
6991	1339.0	CHORISMATE MUTASE (EC 5.4.99.5).	sptrembl Q9Y7B2	ND
6992	1337.5	PUTATIVE DIPHTHINE SYNTHASE.	sptrembl O74898	Translation, ribosomal structure and biogenesis

6993	1334.4	HOMOCITRATE SYNTHASE (EC 4.1.3.21).	sptrembl O94225	Amino acid transport and metabolism
6994	1334.2	PEPTIDE TRANSPORTER PTR2.	swissprot P46030	ND
6995	1334.0	PDI RELATED PROTEIN A.	sptrembl O93914	Energy production and conversion
6996	1333.3	MITOTIC CONTROL PROTEIN DIS3.	swissprot P37202	Transcription
6997	1332.4	GTP-BINDING PROTEIN SARA.	swissnew P52886	ND
6998	1332.2	RIBOSOMAL PROTEIN L13A.	tremblnew AAD54383	Translation, ribosomal structure and biogenesis
6999	1328.3	COENZYME A SYNTHETASE.	sptrembl O74976	Lipid metabolism
7000	1327.3	ALPHA,ALPHA-TREHALOSE-PHOSPHATE SYNTHASE [UDP-FORMING] 2 (EC 2.4.1.15) (TREHALOSE-6-PHOSPHATE SYNTHASE) (UDP-GLUCOSE-GLUCOSEPHOSPHATE GLUCOSYLTRANSFERASE).	swissprot Q00217	Carbohydrate transport and metabolism
7001	1325.1	TUBULIN BETA CHAIN.	swissprot P22012	ND
7002	1324.3	RHO1 PROTEIN.	swissprot Q09914	ND
7003	1322.4	60 KD CHAPERONIN (PROTEIN CPN60) (GROEL PROTEIN) (HEAT SHOCK PROTEIN 60).	sptrembl O94110	Posttranslational modification, protein turnover, chaperones
7004	1319.7	PROBABLE UTP--GLUCOSE-1-PHOSPHATE URIDYLYLTRANSFERASE.	tremblnew CAA22857	ND
7005	1317.8	MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR (EC 1.1.1.37).	swissprot P17505	Energy production and conversion
7006	1317.1	E1-LIKE PROTEIN.	sptrembl O93922	Coenzyme metabolism
7007	1315.8	Human transport-associated protein-6 (TRANP-6).	geneseqp Y31644	ND
7008	1314.0	OUTER MITOCHONDRIAL MEMBRANE PROTEIN PORIN.	swissprot P07144	ND
7009	1313.7	RIBONUCLEOTIDE REDUCTASE LARGE SUBUNIT.	tremblnew AAD49743	Nucleotide transport
7010	1307.1	60S RIBOSOMAL PROTEIN L5.	swissprot O59953	Translation, ribosomal structure and biogenesis
7011	1304.2	GLUCOSE-6-PHOSPHATE 1-DEHYDROGENASE (EC 1.1.1.49) (G6PD).	swissprot P48826	Carbohydrate transport and metabolism

7012	1299.2	C-5 STEROL DESATURASE (EC 1.3.-.-) (STEROL-C5-DESATURASE).	swissprot P50860	ND
7013	1298.5	CYCLOPHILIN B (EC 5.2.1.8).	sptrembl O94190	Posttranslational modification, protein turnover, chaperones
7014	1294.8	PROBABLE GLUCOSE TRANSPORTER RCO-3.	swissprot Q92253	ND
7015	1294.7	ORNITHINE AMINOTRANSFERASE (EC 2.6.1.13) (ORNITHINE--OXO-ACID AMINOTRANSFERASE).	swissprot Q92413	Amino acid transport and metabolism
7016	1292.9	PROTEASOME COMPONENT PUP2 (EC 3.4.99.46) (MACROPAIN SUBUNIT PUP2) (PROTEINASE YSCE SUBUNIT PUP2) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT PUP2).	swissprot P32379	Posttranslational modification, protein turnover, chaperones
7017	1291.3	UDP-N-ACETYLGLUCOSAMINE PYROPHOSPHORYLASE (EC 2.7.7.23).	swissprot O74933	ND
7018	1290.3	GAP-DH.	geneseq R12995	Carbohydrate transport and metabolism
7019	1289.5	ACONITASE.	sptrembl O74699	Energy production and conversion
7020	1289.4	A. niger PacC zinc finger DNA binding domain.	geneseq Y08483	ND
7021	1289.1	Murine RENT1 protein.	geneseq W36509	DNA replication, recombination and repair
7022	1287.5	40S RIBOSOMAL PROTEIN S0 (RIBOSOME-ASSOCIATED PROTEIN 1).	swissprot Q01291	Translation, ribosomal structure and biogenesis
7023	1287.3	CHAPERONIN HSP78P.	sptrembl O74402	Posttranslational modification, protein turnover, chaperones
7024	1279.6	MALATE DEHYDROGENASE (EC 1.1.1.37).	sptrembl O94137	Energy production and conversion
7025	1278.5	QUINATE PERMEASE (QUINATE TRANSPORTER).	swissprot P15325	ND
7026	1277.5	ER CHAPERONE BIP.	tremblnew BAA82597	Posttranslational modification, protein turnover, chaperones
7027	1274.9	NADH-UBIQUINONE OXIDOREDUCTASE 24 KD	swissprot P40915	Energy production and

		SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3).		conversion
7028	1274.1	HEAT SHOCK PROTEIN 70 (FRAGMENT).	sptrembl Q92260	Posttranslational modification, protein turnover, chaperones
7029	1273.4	FATTY ACID SYNTHASE, ALPHA SUBUNIT.	sptrembl P78615	Lipid metabolism
7030	1273.1	CADMIUM RESISTANCE PROTEIN.	sptrembl O94284	ND
7031	1272.6	ACETYL-COA CARBOXYLASE (EC 6.4.1.2).	sptrembl O60033	Lipid metabolism
7032	1271.4	HYPOTHETICAL 80.7 KD PROTEIN IN ERG7-NMD2 INTERGENIC REGION.	swissprot P38795	Coenzyme metabolism
7033	1270.6	NUCLEOSOME ASSEMBLY PROTEIN.	sptrembl Q59797	ND
7034	1268.6	T-COMPLEX PROTEIN 1, BETA SUBUNIT (TCP-1-BETA) (CCT-BETA).	swissprot P39076	Posttranslational modification, protein turnover, chaperones
7035	1263.8	SPERMIDINE SYNTHASE.	sptrembl Q9Y8H7	Amino acid transport and metabolism
7036	1263.7	ACETYL-COA-ACETYLTRANSFERASE (EC 2.3.1.9).	sptrembl Q9Y838	Lipid metabolism
7037	1262.2	SAGA.	sptrembl Q12076	ND
7038	1261.6	HYPOTHETICAL 63.8 KD PROTEIN.	tremblnew CAB61159	ND
7039	1260.2	PUTATIVE PROTEASOME COMPONENT C9/Y13 (EC 3.4.99.46) (MACROPAIN SUBUNIT) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT).	swissprot Q09682	Posttranslational modification, protein turnover, chaperones
7040	1259.3	UBIQUITIN-CONJUGATING ENZYME E2-17 KD (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE 2) (UBIQUITIN CARRIER PROTEIN).	swissprot P52493	ND
7041	1254.9	KETOL-ACID REDUCTOISOMERASE PRECURSOR (EC 1.1.1.86) (ACETOHYDROXY-ACID REDUCTOISOMERASE) (ALPHA-KETO-BETA-HYDROXYLACIL REDUCTOISOMERASE).	swissnew P38674	Amino acid transport and metabolism
7042	1252.6	EUKARYOTIC INITIATION FACTOR 4A-LIKE PROTEIN C1F5.10.	swissprot Q10055	DNA replication, recombination and repair
7043	1251.6	ADENOSINE-5'PHOSPHOSULFATE KINASE (EC 2.7.1.25)	sptrembl Q12657	Inorganic ion transport and metabolism

		(ADENYLYLSULFATE KINASE) (APS KINASE).		
7044	1250.7	40S RIBOSOMAL PROTEIN S9 (S7).	swissprot P52810	Translation, ribosomal structure and biogenesis
7045	1248.6	VALYL-TRNA SYNTHETASE, MITOCHONDRIAL PRECURSOR (EC 6.1.1.9) (VALINE--TRNA LIGASE) (VALRS).	swissprot P28350	Translation, ribosomal structure and biogenesis
7046	1247.2	SCONCP.	tremblnew AAB18274	ND
7047	1244.9	ACID TREHALASE PRECURSOR (EC 3.2.1.28) (ALPHA.ALPHA-TREHALASE) (ALPHA.ALPHA-TREHALOSE GLUCOHYDROLASE).	swissprot P78617	ND
7048	1243.0	SCONCP.	tremblnew AAB18274	ND
7049	1242.8	NADH-UBIQUINONE OXIDOREDUCTASE 23 KD SUBUNIT PRECURSOR (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-23KD) (CI-23KD).	swissprot Q12644	Energy production and conversion
7050	1242.8	TRANSLATION RELEASE FACTOR ERF3.	sptrembl O42787	Amino acid transport and metabolism
7051	1242.2	3-ISOPROPYLMALATE DEHYDRATASE (EC 4.2.1.33) (ISOPROPYLMALATE ISOMERASE) (ALPHA-IPM ISOMERASE) (IPMI).	swissprot P17279	Amino acid transport and metabolism
7052	1240.0	IMPORTIN ALPHA SUBUNIT (KARYOPHERIN ALPHA SUBUNIT) (SERINE-RICH RNA POLYMERASE I SUPPRESSOR PROTEIN).	swissnew O14063	ND
7053	1235.2	PUTATIVE C-4 METHYL STEROL OXIDASE.	tremblnew CAB52730	ND
7054	1228.8	CHITIN SYNTHASE 6 (EC 2.4.1.16) (CHITIN-UDP ACETYL-GLUCOSAMINYL TRANSFERASE 6) (CLASS-V CHITIN SYNTHASE 6).	swissprot O13395	ND
7055	1228.8	CARBOXYPEPTIDASE S3, PENICILLIPEPTIDASE S3, CPD-S3.	tremblnew G1168044	ND
7056	1228.8	ARG-6 PROTEIN PRECURSOR [CONTAINS: N-ACETYL-GAMMA-GLUTAMYL-PHOSPHATE	swissnew P54898	Amino acid transport and metabolism

		REDUCTASE (EC 1.2.1.38) (N-ACETYL-GLUTAMATE SEMIALDEHYDE DEHYDROGENASE) (NAGSA DEHYDROGENASE); ACETYLGLUTAMATE KINASE (EC 2.7.2.8) (NAG KINASE) (AGK) (N-ACETYL-L-GLUTAMATE 5-PHOSPHOTRANSFERASE)].		
7057	1226.4	PROBABLE GLUTAMINYL-TRNA SYNTHETASE.	sptrembl Q9Y7Y8	Translation, ribosomal structure and biogenesis
7058	1225.8	Aspergillus niger tpiA gene.	geneseqp P70498	Carbohydrate transport and metabolism
7059	1225.3	60S RIBOSOMAL PROTEIN L10.	tremblnew CAA22664	Translation, ribosomal structure and biogenesis
7060	1223.0	60S RIBOSOMAL PROTEIN L8 (L7A) (L4).	swissprot O13672	Translation, ribosomal structure and biogenesis
7061	1219.3	RAS-RELATED PROTEIN RAB-11B.	swissprot P46638	ND
7062	1218.6	FISSION YEAST (FRAGMENT).	sptrembl P78903	Amino acid transport and metabolism
7063	1214.9	UBIQUITIN.	tremblnew BAA88168	ND
7064	1214.6	CATALASE A (EC 1.11.1.6).	swissprot P78574	ND
7065	1212.8	TUBULIN ALPHA-1 CHAIN.	swissprot P24633	ND
7066	1212.5	METHYLCITRATE SYNTHASE PRECURSOR (EC 4.1.3.31).	tremblnew CAB53336	Energy production and conversion
7067	1210.5	NAD(+)-SPECIFIC GLUTAMATE DEHYDROGENASE.	sptrembl Q02222	Amino acid transport and metabolism
7068	1209.0	Aspergillus oryzae aminopeptidase II.	geneseqp W89586	ND
7069	1208.4	HAPE.	sptrembl O59849	ND
7070	1206.4	PUTATIVE HOMOSERINE O-ACETYLTRANSFERASE.	sptrembl O13389	Amino acid transport and metabolism
7071	1203.9	HYPOTHETICAL 33.9 KD PROTEIN C16C9.02C IN CHROMOSOME I.	swissprot Q09816	Nucleotide transport
7072	1202.8	PYRUVATE KINASE (EC 2.7.1.40) (PK).	swissprot P22360	Carbohydrate transport and metabolism
7073	1200.3	Microscilla furvescens catalase-53CA1.	geneseqp W33810	Inorganic ion transport and metabolism
7074	1199.9	PROTEASOME	swissprot P25451	Posttranslational

		COMPONENT PUP3 (EC 3.4.99.46) (MACROPAIN SUBUNIT PUP3) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT PUP3).		modification, protein turnover, chaperones
7075	1199.4	MYO-INOSITOL-1-PHOSPHATE SYNTHASE.	tremblnew BAA84084	Lipid metabolism
7076	1194.0	26S PROTEASOME REGULATORY SUBUNIT S3 (PROTEASOME SUBUNIT P58) (TRANSPLANTATION ANTIGEN P91A) (TUM-P91A ANTIGEN).	swissprot P14685	ND
7077	1193.1	KINASE.	sptrembl Q00611	Signal transduction mechanisms
7078	1190.6	PMRI.	sptrembl O74637	ND
7079	1190.3	DIHYDROLIPOAMIDE ACETYLTRANSFERASE COMPONENT OF PYRUVATE DEHYDROGENASE COMPLEX, MITOCHONDRIAL PRECURSOR (EC 2.3.1.12) (E2) (PDC-E2) (MRP3).	swissprot P20285	Energy production and conversion
7080	1188.1	CARBOXYPEPTIDASE S3, PENICILLOPEPTIDASE S3, CPD-S3.	tremblnew G1168044	ND
7081	1183.0	SUAPRGA1.	tremblnew CAB62571	ND
7082	1182.6	PUTATIVE SEPTIN.	tremblnew CAB61437	ND
7083	1179.6	PROTEASOME COMPONENT C7-ALPHA (EC 3.4.99.46) (MACROPAIN SUBUNIT C7- ALPHA) (PROTEINASE YSCE SUBUNIT 7) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX C7) (COMPONENT Y8) (SCL1 SUPPRESSOR PROTEIN).	swissprot P21243	Posttranslational modification, protein turnover, chaperones
7084	1178.9	UBI1.	tremblnew AAF24230	ND
7085	1177.7	ASPERGILLOPEPSIN O.	sptrembl Q00249	ND
7086	1176.0	ELONGATION FACTOR 1-GAMMA 2 (EF-1-GAMMA 2).	swissprot P36008	ND
7087	1174.2	P68-LIKE PROTEIN..	tremblnew CAA21801	DNA replication, recombination and repair
7088	1173.8	60S RIBOSOMAL PROTEIN L18.	swissnew Q10192	Translation, ribosomal structure and biogenesis

7089	1170.3	TUBULIN BETA CHAIN.	swissprot P22012	ND
7090	1165.8	CALCIUM/CALMODULIN DEPENDENT PROTEIN KINASE B.	sptrembl Q9Y899	Signal transduction mechanisms
7091	1164.6	CALMODULIN.	swissnew P19533	ND
7092	1164.1	HYPOTHETICAL 31.6 KD PROTEIN.	sptrembl O13844	ND
7093	1164.0	Aspergillus oryzae hemA deletion allele-encoded protein.	geneseqp W30559	Coenzyme metabolism
7094	1163.5	PHOSPHOGLUCOMUTASE 2 (EC 5.4.2.2) (GLUCOSE PHOSPHOMUTASE 2) (PGM 2).	swissprot P37012	Carbohydrate transport and metabolism
7095	1162.5	CALCIUM/CALMODULIN- DEPENDENT PROTEIN KINASE (EC 2.7.1.123) (CMPK).	swissprot Q00771	Signal transduction mechanisms
7096	1161.9	ENOLASE (EC 4.2.1.11) (2- PHOSPHOGLYCERATE DEHYDRATASE) (2- PHOSPHO-D- GLYCERATE HYDRO-LYASE).	swissprot Q12560	Carbohydrate transport and metabolism
7097	1158.5	RIBOSOMAL PROTEIN S28.	tremblnew CAB56815	Translation, ribosomal structure and biogenesis
7098	1157.0	An enzyme with sugar transferase activity.	geneseqp W88044	Carbohydrate transport and metabolism
7099	1156.7	SERINE/THREONINE- PROTEIN KINASE STE20 (EC 2.7.1.-).	swissnew Q03497	Signal transduction mechanisms
7100	1152.3	THREONYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.3) (THREONINE--TRNA LIGASE) (THRRS).	swissprot P87144	Translation, ribosomal structure and biogenesis
7101	1152.2	PUTATIVE GLYCYL-TRNA SYNTHETASE (EC 6.1.1.14) (GLYCINE--TRNA LIGASE) (GLYRS).	swissprot Q10179	Translation, ribosomal structure and biogenesis
7102	1151.5	PROBABLE MEMBRANE PROTEIN YOL130W.	sptrembl O13657	Inorganic ion transport and metabolism
7103	1151.0	NAD(+)-SPECIFIC GLUTAMATE DEHYDROGENASE.	sptrembl Q02222	ND
7104	1147.9	PHENYLALANYL-TRNA SYNTHETASE ALPHA CHAIN.	sptrembl O42849	Translation, ribosomal structure and biogenesis
7105	1143.7	SP62 HUMAN.	sptrembl O75245	ND
7106	1143.4	40S RIBOSOMAL PROTEIN S6.	swissprot P05752	Translation, ribosomal structure and biogenesis
7107	1141.0		swissprot P39954	Coenzyme

		ADENOSYLHOMOCYSTEINASE (EC 3.3.1.1) (S-ADENOSYL-L-HOMOCYSTEINE HYDROLASE) (ADOHCYASE).		metabolism
7108	1140.7	CYCLOPHILIN-LIKE PEPTIDYL PROLYL CIS-TRANS ISOMERASE (EC 5.2.1.8).	sptrembl O94184	Posttranslational modification, protein turnover, chaperones
7109	1138.6	UBIQUINOL-CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL PRECURSOR (EC 1.10.2.2) (RIESKE IRON-SULFUR PROTEIN) (RISP).	swissprot P07056	Energy production and conversion
7110	1138.1	GLYCEROL KINASE (EC 2.7.1.30) (ATP:GLYCEROL 3-PHOSPHOTRANSFERASE) (GLYCEROKINASE) (GK).	swissprot Q64516	Energy production and conversion
7111	1135.1	Cephalosporin C #2.	geneseqp R49827	Energy production and conversion
7112	1132.7	REDUCTASE (FRAGMENT).	sptrembl O74646	ND
7113	1131.8	40S RIBOSOMAL PROTEIN S5 (S2) (YS8) (RP14).	swissprot P26783	Translation, ribosomal structure and biogenesis
7114	1130.9	60S RIBOSOMAL PROTEIN L7-C.	swissprot O60143	Translation, ribosomal structure and biogenesis
7115	1127.4	5-METHYLTETRAHYDROPTEROYLTRIGLUTAMATE--HOMOCYSTEIN METHYLTRANSFERASE (EC 2.1.1.14).	tremblnew CAB57427	Amino acid transport and metabolism
7116	1126.5	REGULATORY PROTEIN.	sptrembl Q00170	ND
7117	1125.8	RASP F 9 (FRAGMENT).	sptrembl O42800	Carbohydrate transport and metabolism
7118	1119.7	FIBRILLARIN (NUCLEOLAR PROTEIN 1).	swissprot P15646	Translation, ribosomal structure and biogenesis
7119	1115.8	PHOSPHO-2-DEHYDRO-3-DEOXYHEPTONATE ALDOLASE, TYROSINE-INHIBITED (EC 4.1.2.15) (PHOSPHO-2-KETO-3-DEOXYHEPTONATE ALDOLASE) (DAHP SYNTHETASE) (3-DEOXY-D-ARABINO-	swissprot P32449	Amino acid transport and metabolism

		HEPTULOSONATE 7-PHOSPHATE SYNTHASE).		
7120	1115.8	PROBABLE PEROXISOMAL MEMBRANE PROTEIN PMP20 (ALLERGEN ASP F 3).	swissprot O43099	ND
7121	1113.7	Yeast Pad1 protein.	geneseq Y08454	ND
7122	1111.9	GLUCOSAMINE-6-PHOSPHATE DEAMINASE.	tremblnew AAD42233	Carbohydrate transport and metabolism
7123	1111.6	BETA GLUCOSIDASE HOMOLOG.	sptrembl O13385	ND
7124	1110.3	SERINE/THREONINE PROTEIN KINASE.	sptrembl Q99012	Signal transduction mechanisms
7125	1108.9	ATP SYNTHASE ALPHA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P37211	Energy production and conversion
7126	1108.4	SULFATE ADENYLYLTRANSFERASE (EC 2.7.7.4) (SULFATE ADENYLATE TRANSFERASE) (ATP-SULFURYLASE) (SULFURYLASE).	sptrembl Q12555	Inorganic ion transport and metabolism
7127	1106.0	PUTATIVE CTP SYNTHASE C10F6.03C (EC 6.3.4.2) (UTP-AMMONIA LIGASE C10F6.03C) (CTP SYNTHETASE C10F6.03C).	sptrembl O42644	Nucleotide transport
7128	1105.5	CYCLOPHILIN-LIKE PEPTIDYL PROLYL CIS-TRANS ISOMERASE (EC 5.2.1.8).	sptrembl O94184	Posttranslational modification, protein turnover, chaperones
7129	1105.2	HYDROXYMETHYLGLUTARYL-COA SYNTHASE (EC 4.1.3.5) (HMG-COA SYNTHASE) (3-HYDROXY-3-METHYLGLUTARYL COENZYME A SYNTHASE).	swissprot P54839	Lipid metabolism
7130	1104.2	NEGATIVE REGULATOR OF MITOSIS.	swissprot P24686	ND
7131	1103.9	SACCHAROPINE DEHYDROGENASE [NAD ⁺ , L-LYSINE FORMING] (EC 1.5.1.7) (LYSINE--2-OXOGLUTARATE REDUCTASE) (SDH).	swissprot P38997	Energy production and conversion
7132	1102.6	REPLICATION FACTOR-A PROTEIN 1.	tremblnew CAA22533	ND
7133	1100.7	QUEUINE TRNA-RIBOSYLTRANSFERASE.	sptrembl O94460	Translation, ribosomal structure and biogenesis
7134	1099.7	60S RIBOSOMAL PROTEIN L12.	swissprot P23358	Translation, ribosomal

				structure and biogenesis
7135	1099.6	PRP12P/SAP130.	tremblnew BAA86918	ND
7136	1099.4	ACYL-COA DESATURASE 1 (EC 1.14.99.5) (STEAROYL-COA DESATURASE 1) (FATTY ACID DESATURASE 1).	sptrembl Q12619	Lipid metabolism
7137	1098.0	YPT1-RELATED PROTEIN 5.	swissprot P36586	ND
7138	1094.5	Mouse cyclophilin 40 protein sequence.	geneseqp Y34196	Posttranslational modification, protein turnover, chaperones
7139	1093.9	PUTATIVE FAMILY-31 GLUCOSIDASE.	tremblnew CAB65603	Carbohydrate transport and metabolism
7140	1093.9	LEUCINE ZIPPER.	sptrembl Q00096	ND
7141	1093.6	SPLICING FACTOR U2AF 23 KD SUBUNIT (U2 AUXILIARY FACTOR 23 KD SUBUNIT) (U2 SNRNP AUXILIARY FACTOR SMALL SUBUNIT) (U2AF23).	swissprot Q09176	ND
7142	1093.0	COMPONENT OF CHAPERONIN-CONTAINING T-COMPLEX (ZETA SUBUNIT).	sptrembl O94515	Posttranslational modification, protein turnover, chaperones
7143	1092.4	HYPOTHETICAL 41.8 KD PROTEIN.	sptrembl O59715	ND
7144	1091.5	1,4-BENZOQUINONE REDUCTASE.	sptrembl Q9Y763	ND
7145	1091.1	PROBABLE VACUOLAR SORTING PROTEIN, DYNAMIN FAMILY (FRAGMENT).	tremblnew CAB62830	ND
7146	1090.3	UBIQUITIN-CONJUGATING ENZYME E2-18 KD (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE HUS5) (UBIQUITIN CARRIER PROTEIN HUS5).	swissprot P40984	ND
7147	1086.9	MITOGEN-ACTIVATED PROTEIN KINASE (EC 2.7.1.1) (MAPK).	sptrembl Q00859	Signal transduction mechanisms
7148	1085.5	HOMOENTISATE 1,2-DIOXYGENASE (EC 1.13.11.5) (HOMOENTISICASE) (HOMOENTISATE OXYGENASE) (HOMOENTISIC ACID OXIDASE).	swissprot Q00667	ND
7149	1084.0	ION TRANSPORTER.	sptrembl O59768	Inorganic ion transport and

				metabolism
7150	1078.8	PEPTIDE TRANSPORT PROTEIN.	tremblnew CAA22021	ND
7151	1078.4	PYRUVATE DECARBOXYLASE (EC 4.1.1.1).	swissprot P51844	Coenzyme metabolism
7152	1068.6	ALDEHYDE DEHYDROGENASE (EC 1.2.1.3) (ALDDH) (ALLERGEN CLA H 3) (CLA H III).	swissprot P40108	Energy production and conversion
7153	1068.5	VALYL-TRNA SYNTHETASE, MITOCHONDRIAL PRECURSOR (EC 6.1.1.9) (VALINE--TRNA LIGASE) (VALRS).	swissprot P28350	Translation, ribosomal structure and biogenesis
7154	1065.8	40S RIBOSOMAL PROTEIN S15 (S12).	swissprot P34737	Translation, ribosomal structure and biogenesis
7155	1065.4	U3 SMALL NUCLEOLAR RIBONUCLEOPROTEIN PROTEIN IMP4.	swissnew P53941	ND
7156	1064.0	POTASSIUM TRANSPORTER.	sptrembl Q9Y7B9	Inorganic ion transport and metabolism
7157	1063.6	PUTATIVE SEPTIN.	tremblnew CAB52419	ND
7158	1063.2	GLUTATHIONE-DEPENDENT FORMALDEHYDE DEHYDROGENASE (EC 1.2.1.1) (FDH) (FALDH) (FLD1).	sptrembl O74685	ND
7159	1061.9	60S RIBOSOMAL PROTEIN L11.	swissprot Q10157	Translation, ribosomal structure and biogenesis
7160	1060.4	PUTATIVE GLUCOSE SENSOR.	sptrembl O13477	ND
7161	1059.8	ADENYLATE KINASE CYTOSOLIC (EC 2.7.4.3) (ATP-AMP TRANSPHOSPHORYLASE).	swissprot P07170	Nucleotide transport
7162	1059.7	NADH-UBIQUINONE OXIDOREDUCTASE 21 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-21KD) (CI-21KD).	swissprot Q02854	ND
7163	1059.1	40S RIBOSOMAL PROTEIN S3.	swissprot O60128	Translation, ribosomal structure and biogenesis
7164	1058.1	HEAT SHOCK PROTEIN 70.	sptrembl O42808	Posttranslational modification, protein turnover,

				chaperones
7165	1057.4	Beta-1 integrin modulator B171.	geneseqp W19771	ND
7166	1056.9	PROLIFERATING CELL NUCLEAR ANTIGEN (PCNA).	swissprot Q03392	DNA replication, recombination and repair
7167	1055.9	O-METHYLTRANSFERASE.	tremblnew BAA86103	ND
7168	1054.2	HYPOTHETICAL 49.1 KD PROTEIN IN SSB2-SPX18 INTERGENIC REGION.	swissprot P40160	Signal transduction mechanisms
7169	1054.1	M. grisea PTH2 gene product.	geneseqp Y06783	ND
7170	1051.1	40S RIBOSOMAL PROTEIN S7.	swissprot O43105	ND
7171	1049.8	ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL, PRECURSOR (EC 3.6.1.34).	swissnew P23704	Energy production and conversion
7172	1049.2	PRE-MRNA SPLICING FACTOR.	sptrembl Q12381	ND
7173	1046.5	GLYCOGEN PHOSPHORYLASE (EC 2.4.1.1).	swissprot P06738	Carbohydrate transport and metabolism
7174	1046.1	HISTONE H2A.	sptrembl O13413	ND
7175	1044.6	DIMETHYL-ALLYL-TRYPTOPHAN-SYNTHASE.	sptrembl O94204	ND
7176	1044.3	SIMILAR TO GLYCOGEN DEBRANCHING ENZYME.	sptrembl Q06625	Carbohydrate transport and metabolism
7177	1041.1	CHITIN SYNTHASE D (EC 2.4.1.16) (CHITIN-UDP ACETYL-GLUCOSAMINYL TRANSFERASE D) (CLASS-V CHITIN SYNTHASE D).	swissprot P78611	ND
7178	1040.4	PUTATIVE HYDROXYACYLGLUTATHIONE HYDROLASE..	tremblnew CAB57337	ND
7179	1039.8	A. crysogenum cystathionine beta-synthase.	geneseqp R72589	Amino acid transport and metabolism
7180	1036.9	PUTATIVE DIHYDROXY-ACID DEHYDRATASE, MITOCHONDRIAL, PRECURSOR (EC 4.2.1.9) (DAD) (2,3-DIHYDROXY ACID HYDROLYASE).	swissprot Q10318	Amino acid transport and metabolism
7181	1036.6	Malassezia fungus MF-5 antigenic protein.	geneseqp W29772	Energy production and conversion
7182	1035.6	LEUCYL-TRNA SYNTHETASE, MITOCHONDRIAL, PRECURSOR (EC 6.1.1.4) (LEUCINE--TRNA LIGASE) (LEURS).	swissprot P15181	Translation, ribosomal structure and biogenesis
7183	1033.6	HYPOTHETICAL 69.2 KD PROTEIN.	sptrembl O60164	ND
7184	1032.1	PROBABLE SUCCINATE	tremblnew	Energy

		DEHYDROGENASE FLAVOPROTEIN SUBUNIT PRECURSOR(EC 1.3.5.1).	CAB61213	production and conversion
7185	1032.0	PUTATIVE ELONGATION FACTOR 3.	sptrembl O94489	ND
7186	1028.5	ISOPENTENYL- DIPHOSPHATE DELTA- ISOMERASE.	tremblnew CAB53731	Lipid metabolism
7187	1028.1	PUTATIVE PROTEASE SUBUNIT, CHAPERONIN.	sptrembl O94641	Posttranslational modification, protein turnover, chaperones
7188	1027.1	T-COMPLEX PROTEIN 1 GAMMA SUBUNIT HOMOLOG.	sptrembl O74341	ND
7189	1024.3	SUPEROXIDE DISMUTASE (CU-ZN) (EC 1.15.1.1).	sptrembl Q9Y8D9	Inorganic ion transport and metabolism
7190	1022.5	BCDNA.LDI4392.	sptrembl Q9XZ58	ND
7191	1022.1	ALCOHOL OXIDASE 1.	tremblnew AAF02494	ND
7192	1020.8	T-COMPLEX PROTEIN 1, DELTA SUBUNIT (TCP-1- DELTA) (CCT-DELTA) (STIMULATOR OF TAR RNA BINDING).	swissprot P50991	Posttranslational modification, protein turnover, chaperones
7193	1020.0	An enzyme with sugar transferase activity.	geneseqp W88044	ND
7194	1019.3	GAP-DH.	geneseqp R12995	Carbohydrate transport and metabolism
7195	1018.7	HYPOTHETICAL 49.3 KD PROTEIN C30D11.06C IN CHROMOSOME I.	swissprot Q09906	ND
7196	1018.2	UBIQUITIN-ACTIVATING ENZYME E1 1 (FRAGMENT).	swissprot P52495	Coenzyme metabolism
7197	1018.0	NUCLEAR MOVEMENT PROTEIN NUDC.	swissprot P17624	ND
7198	1018.0	GAP-DH.	geneseqp R12995	Carbohydrate transport and metabolism
7199	1017.4	CARNITINE/ACYL CARNITINE CARRIER.	sptrembl Q9Y7G4	ND
7200	1016.8	REHYDRIN-LIKE PROTEIN.	sptrembl O94014	Posttranslational modification, protein turnover, chaperones
7201	1016.4	HYPOTHETICAL 37.2 KD PROTEIN IN CHA1-PRD1 INTERGENIC REGION.	swissprot P25586	Translation, ribosomal structure and biogenesis
7202	1014.5	HYPOTHETICAL 69.0 KD PROTEIN.	sptrembl O94022	ND
7203	1009.3	RHO2 PROTEIN.	swissprot Q10133	ND
7204	1006.6	PUTATIVE LYSYL-TRNA SYNTHETASE.	tremblnew CAB52801	Translation, ribosomal structure and

				biogenesis
7205	1004.7	GLYCYL-TRNA SYNTHETASE (EC 6.1.1.14) (GLYCINE--TRNA LIGASE) (GLYRS).	swissprot P38088	Translation, ribosomal structure and biogenesis
7206	1004.2	UBIQUITIN-CONJUGATING ENZYME E2-18 KD (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN).	swissprot O00102	ND
7207	1003.8	ISOLEUCYL-TRNA SYNTHETASE, CYTOPLASMIC (EC 6.1.1.5) (ISOLEUCINE--TRNA LIGASE) (ILERS).	swissprot P09436	Translation, ribosomal structure and biogenesis
7208	1001.0	CHITIN SYNTHASE A (EC 2.4.1.16) (CHITIN-UDP ACETYL-GLUCOSAMINYL TRANSFERASE A) (CLASS-II CHITIN SYNTHASE A).	swissprot P30584	ND
7209	1000.9	VACUOLAR ATP SYNTHASE 98 KD SUBUNIT (EC 3.6.1.34) (VACUOLAR ATPASE 98 KD SUBUNIT).	swissprot Q01290	Energy production and conversion

Table 4. *Trichoderma reesei* ESTs

Sequence Listing	zscore	Annotation	Database	Functional Category
7401	3514.6	EXOGLUCANASE I PRECURSOR (EC 3.2.1.91) (EXOCELLOBIOHYDROLASE I) (CBHI) (1,4-BETA-CELLOBIOHYDROLASE).	swissprot P00725	ND
7402	3143.2	Cellobiohydrolase CBH II protein.	geneseqp P50308	ND
7403	2899.7	HEAT SHOCK 70 KD PROTEIN (HSP70).	swissprot Q01233	Posttranslational modification, protein turnover, chaperones
7404	2335.7	BETE-GLUCOSIDASE.	sptrembl O93785	ND
7405	2276.9	BETA-XYLOSIDASE PRECURSOR (EC 3.2.1.37).	sptrembl Q92458	ND
7406	2270.7	PROTEIN DISULPHIDE ISOMERASE PRECURSOR.	sptrembl O74568	ND
7407	1899.1	ENDOGLUCANASE IV.	sptrembl O14405	ND
7408	1808.4	ENDOGLUCANASE EG-II PRECURSOR (EC 3.2.1.4) (ENDO-1,4-BETA-GLUCANASE) (CELLULASE).	swissprot P07982	ND
7409	1731.4	Enzyme with endoglucanase activity.	geneseqp R66548	ND
7410	1719.7	Endoglucanase-I protein	geneseqp R79539	ND

		sequence.		
7411	1691.7	ACETYLXYLAN ESTERASE PRECURSOR (EC 3.1.1.72).	sptrembl Q99034	ND
7412	1640.1	PUTATIVE PROTEASE SUBUNIT, CHAPERONIN.	sptrembl O94641	Posttranslational modification, protein turnover, chaperones
7413	1526.2	ELONGATION FACTOR 1- ALPHA (EF-1-ALPHA).	swissprot P34825	Amino acid transport and metabolism
7414	1453.5	78 KD GLUCOSE- REGULATED PROTEIN HOMOLOG PRECURSOR (GRP 78) (IMMUNOGLOBULIN HEAVY CHAIN BINDING PROTEIN HOMOLOG) (BIP).	swissnew P78695	Posttranslational modification, protein turnover, chaperones
7415	1408.0	GLYCERALDEHYDE 3- PHOSPHATE DEHYDROGENASE 2 (EC 1.2.1.12) (GAPDH2).	swissprot P17730	Carbohydrate transport and metabolism
7416	1405.7	AMINO-ACID PERMEASE INDA1.	swissprot P34054	Amino acid transport and metabolism
7417	1395.0	NADH DEHYDROGENASE SUBUNIT.	sptrembl Q01388	Energy production and conversion
7418	1393.9	POLYUBIQUITIN.	sptrembl O74274	ND
7419	1346.1	ADP.ATP CARRIER PROTEIN (ADP/ATP TRANSLOCASE) (ADENINE NUCLEOTIDE TRANSLOCATOR) (ANT).	swissprot P02723	ND
7420	1323.7	PYRUVATE CARBOXYLASE.	sptrembl O93918	Amino acid transport and metabolism
7421	1309.3	GLUCAN SYNTHASE.	sptrembl Q9Y8B3	ND
7422	1262.0	BETA-XYLOSIDASE PRECURSOR (EC 3.2.1.37).	sptrembl Q92458	ND
7423	1257.6	HEAT SHOCK PROTEIN 90 HOMOLOG (SUPPRESSOR OF VEGETATIVE INCOMPATIBILITY MOD-E).	swissprot O43109	Posttranslational modification, protein turnover, chaperones
7424	1236.9	ALPHA-L- ARABINOFURANOSIDASE PRECURSOR (EC 3.2.1.55) (ARABINOSIDASE).	swissprot O54161	ND
7425	1236.1	STRESS-RESPONSIVE GENE PRODUCT.	tremblnew BAA85305	ND
7426	1233.4	<i>T. longibrachiatum</i> endoglucanase EGH.	geneseqp R77264	ND
7427	1209.2	EXOGLUCANASE I PRECURSOR (EC 3.2.1.91) (EXOCELLOBIOHYDROLAS E I) (CBHI) (1,4-BETA- CELLOBIOHYDROLASE).	swissprot P00725	ND

7428	1202.4	ACID TREHALASE PRECURSOR (EC 3.2.1.28) (ALPHA,ALPHA- TREHALASE) (ALPHA,ALPHA- TREHALOSE GLUCOHYDROLASE).	swissprot P78617	ND
7429	1180.9	A. chrysogenum gamma-actin.	geneseqp W77101	Cell division and chromosome partitioning
7430	1175.1	SERINE HYDROXYMETHYLTRANS FERASE, CYTOSOLIC (EC 2.1.2.1) (SERINE METHYLASE) (GLYCINE HYDROXYMETHYLTRANS FERASE) (SHMT).	swissprot P34898	Amino acid transport and metabolism
7431	1158.1	ELONGATION FACTOR 1- ALPHA (EF-1-ALPHA).	swissprot P34825	Amino acid transport and metabolism
7432	1155.9	RIBOSE-PHOSPHATE PYROPHOSPHOKINASE.	sptrembl O94413	Nucleotide transport
7433	1140.3	NAD(+)-ISOCITRATE DEHYDROGENASE SUBUNIT I PRECURSOR.	sptrembl O13302	Amino acid transport and metabolism
7434	1132.8	PLASMA MEMBRANE ATPASE (EC 3.6.1.35) (PROTON PUMP).	swissprot P07038	Inorganic ion transport and metabolism
7435	1127.0	HISTIDINE KINASE (FRAGMENT).	tremblnew AAD40816	ND
7436	1122.6	HYPOTHETICAL 44.2 KD GTP-BINDING PROTEIN IN SCO2-MRF1 INTERGENIC REGION.	swissprot P38219	ND
7437	1073.9	GUANINE NUCLEOTIDE- BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN (CROSS- PATHWAY CONTROL WD-REPEAT PROTEIN CPC-2).	swissprot Q01369	ND
7438	1063.3	GTP-BINDING PROTEIN YPT1.	swissprot P33723	ND
7440	993.7	FUMARATE HYDRATASE PRECURSOR (EC 4.2.1.2) (FUMARASE).	swissprot P55250	Energy production and conversion
7441	985.3	PH RESPONSIVE PROTEIN 1 PRECURSOR (PH- REGULATED PROTEIN 1).	swissprot P43076	ND
7442	985.0	60S RIBOSOMAL PROTEIN L5.	swissprot O59953	Translation, ribosomal structure and biogenesis
7443	980.7	INORGANIC PYROPHOSPHATASE (EC 3.6.1.1) (PYROPHOSPHATE PHOSPHO- HYDROLASE) (PPASE).	swissprot P19117	Energy production and conversion

7444	977.7	40S RIBOSOMAL PROTEIN S3AE (S1).	swissprot P40910	Translation, ribosomal structure and biogenesis
7445	971.3	MONOUBIQUITIN/CARBOXY EXTENSION PROTEIN FUSION.	sptrembl O74216	ND
7446	968.6	PROBABLE ATP-DEPENDENT PERMEASE C3F10.11C.	swissprot Q10185	ND
7447	959.7	HEAT SHOCK PROTEIN 90 HOMOLOG (SUPPRESSOR OF VEGETATIVE INCOMPATIBILITY MOD-E).	swissprot O43109	Posttranslational modification, protein turnover, chaperones
7448	957.2	CYCLOPHILIN B (EC 5.2.1.8).	sptrembl O94190	Posttranslational modification, protein turnover, chaperones
7450	944.8	AMINO-ACID PERMEASE IND1.	swissprot P34054	Amino acid transport and metabolism
7451	936.4	PLASMA MEMBRANE H(+)-ATPASE.	sptrembl O93862	Inorganic ion transport and metabolism
7452	925.1	78 KD GLUCOSE-REGULATED PROTEIN HOMOLOG PRECURSOR (GRP 78) (IMMUNOGLOBULIN HEAVY CHAIN BINDING PROTEIN HOMOLOG) (BIP).	swissnew P78695	Posttranslational modification, protein turnover, chaperones
7453	907.3	PUTATIVE BETA-SUBUNIT OF K ⁺ CHANNELS.	sptrembl O82064	Energy production and conversion
7454	902.5	CHROMOSOME XV READING FRAME ORF YOR262W.	sptrembl Q08726	ND
7455	900.3	ACYL-COA DESATURASE 1 (EC 1.14.99.5) (STEAROYL-COA DESATURASE 1) (FATTY ACID DESATURASE 1).	sptrembl Q12618	Lipid metabolism
7456	899.4	PROTEIN TRANSPORT PROTEIN SEC61 ALPHA SUBUNIT.	swissprot P78979	Cell motility and secretion
7457	876.0	60S RIBOSOMAL PROTEIN L23 (L17).	swissprot P04451	Translation, ribosomal structure and biogenesis
7458	867.5	BETA-GLUCOSIDASE.	sptrembl O93784	ND
7459	861.2	78 KD GLUCOSE-REGULATED PROTEIN HOMOLOG PRECURSOR (GRP 78) (IMMUNOGLOBULIN HEAVY CHAIN BINDING	swissnew P78695	Posttranslational modification, protein turnover, chaperones

		PROTEIN HOMOLOG) (BIP).		
7460	856.5	PUTATIVE GTP CYCLOHYDROLASE.	tremblnew CAB65619	ND
7461	849.6	PROTEASOME COMPONENT PUP2 (EC 3.4.99.46) (MACROPAIN SUBUNIT PUP2) (PROTEINASE YSCE SUBUNIT PUP2) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT PUP2).	swissprot P32379	Posttranslational modification, protein turnover, chaperones
7462	839.0	40S RIBOSOMAL PROTEIN S4.	swissprot P87158	Translation, ribosomal structure and biogenesis
7463	837.8	PCZA361.14.	sptrembl O52801	ND
7464	835.2	CALCINEURIN B SUBUNIT (PROTEIN PHOSPHATASE 2B REGULATORY SUBUNIT) (CALCINEURIN REGULATORY SUBUNIT).	swissprot P87072	ND
7465	834.2	3-ISOPROPYLMALATE DEHYDROGENASE (EC 1.1.1.85) (BETA-IPM DEHYDROGENASE) (IMDH) (3-IPM-DH).	swissprot P34738	Amino acid transport and metabolism
7466	832.8	HEAT SHOCK PROTEIN 60 PRECURSOR (ANTIGEN HIS-62).	swissprot P50142	Posttranslational modification, protein turnover, chaperones
7467	829.9	40S RIBOSOMAL PROTEIN S17 (CRP3).	swissprot P27770	Translation, ribosomal structure and biogenesis
7468	823.2	4-DIHYDROMETHYL- TRISPORATE DEHYDROGENASE.	sptrembl Q01213	ND
7469	801.8	CYCLOPHILIN, MITOCHONDRIAL FORM PRECURSOR (EC 5.2.1.8).	sptrembl Q99009	Posttranslational modification, protein turnover, chaperones
7470	800.4	ATP SYNTHASE BETA CHAIN, MITOCHONDRIAL PRECURSOR (EC 3.6.1.34).	swissnew P23704	Energy production and conversion
7471	797.6	A. niger xylanase regulator xylR	geneseqp W08586	ND
7472	796.4	40S RIBOSOMAL PROTEIN S8 (S14) (YS9) (RP19).	swissprot P05754	Translation, ribosomal structure and biogenesis
7473	787.3	60S RIBOSOMAL PROTEIN L2.	sptrembl O94253	Translation, ribosomal structure and biogenesis
7474	780.1	ELONGATION FACTOR 2 (FRAGMENT).	tremblnew CAB52147	Translation, ribosomal

				structure and biogenesis
7475	778.8	VACUOLAR ATP SYNTHASE SUBUNIT B (EC 3.6.1.34) (V-ATPASE 57 KD SUBUNIT).	swissprot P11593	Energy production and conversion
7476	778.0	40S RIBOSOMAL PROTEIN S14 (CRP2).	swissprot P19115	Translation, ribosomal structure and biogenesis
7477	757.6	PROBABLE UTP--GLUCOSE-1-PHOSPHATE URIDYLYLTRANSFERASE.	tremblnew CAA22857	ND
7478	746.3	Candida albicans CaCLA4 protein.	geneseqp W48896	Signal transduction mechanisms
7479	736.5	CTR1 SUPPRESSOR PROTEIN.	swissprot P32784	ND
7480	728.0	ACETYL-COENZYME A SYNTHETASE (EC 6.2.1.1) (ACETATE--COA LIGASE) (ACYL- ACTIVATING ENZYME).	swissprot P16928	Lipid metabolism
7481	725.0	TRANSALDOLASE (EC 2.2.1.2).	swissprot P15019	Carbohydrate transport and metabolism
7482	724.0	PROTEIN KINASE.	sptrembl O59790	Signal transduction mechanisms
7483	720.8	PDI RELATED PROTEIN A.	sptrembl O93914	Energy production and conversion
7484	711.9	40S RIBOSOMAL PROTEIN S22 (S15A) (YS24).	swissprot P33953	Translation, ribosomal structure and biogenesis
7485	709.2	Yeast RNA-binding protein ZPR1.	geneseqp W38455	ND
7486	700.7	pI 5.5 endoxylanase.	geneseqp R47123	ND
7487	700.5	PUTATIVE ALPHA.ALPHA-TREHALOSE-PHOSPHATE SYNTHASE.	tremblnew CAB52715	Carbohydrate transport and metabolism
7488	693.1	POTENTIAL PROTEASOME COMPONENT C5 (EC 3.4.99.46) (MULTICATALYTIC ENDOPEPTIDASE COMPLEX SUBUNIT C5).	swissprot P23724	Posttranslational modification, protein turnover, chaperones
7489	684.0	VACUOLAR ASPARTIC PROTEASE PRECURSOR.	sptrembl O42630	ND
7490	682.5	PHOSPHOGLUCOMUTASE.	sptrembl O74374	Carbohydrate transport and metabolism
7491	681.8	40S RIBOSOMAL PROTEIN S6.	swissprot P05752	Translation, ribosomal structure and biogenesis

7492	678.4	PROTEIN TRANSPORT PROTEIN SEC13.	swissprot P53024	ND
7493	667.9	EBURICOL 14 ALPHA- DEMETHYLASE.	tremblnew AAF18468	ND
7494	663.8	NADP-SPECIFIC GLUTAMATE DEHYDROGENASE (EC 1.4.1.4) (NADP-GDH).	swissprot P00369	Amino acid transport and metabolism
7495	653.0	HYPOTHETICAL 17.4 KD PROTEIN.	sptrembl O59727	ND
7496	643.2	DIHYDROLIPOAMIDE ACETYLTRANSFERASE COMPONENT OF PYRUVATE DEHYDROGENASE COMPLEX. MITOCHONDRIAL PRECURSOR (EC 2.3.1.12) (E2) (PDC-E2) (MRP3).	swissprot P20285	Energy production and conversion
7497	641.3	CAMP-DEPENDENT PROTEIN KINASE CATALYTIC SUBUNIT.	sptrembl Q9Y777	Signal transduction mechanisms
7498	639.5	CELL DIVISION- ASSOCIATED PROTEIN BIMB.	swissprot P33144	ND
7499	632.0	HIGH-AFFINITY GLUCOSE TRANSPORTER.	swissprot P49374	ND
7500	631.2	HYPOTHETICAL 58.8 KD PROTEIN C16A3.10 IN CHROMOSOME II.	sptrembl O42916	ND
7501	628.2	PROTEIN KINASE DSK1 (EC 2.7.1.-) (DIS1- SUPPRESSING PROTEIN KINASE).	swissprot P36616	Signal transduction mechanisms
7502	627.2	14-3-3.	tremblnew BAA89421	ND
7503	623.1	78 KD GLUCOSE- REGULATED PROTEIN HOMOLOG PRECURSOR (GRP 78) (IMMUNOGLOBULIN HEAVY CHAIN BINDING PROTEIN HOMOLOG) (BIP).	swissprot P36604	Posttranslational modification, protein turnover, chaperones
7504	618.5	CYTOCHROME C549.	tremblnew BAA85768	ND
7505	617.0	3-HYDROXYBUTYRYL- COA DEHYDROGENASE (EC 1.1.1.157) (BETA- HYDROXYBUTYRYL-COA DEHYDROGENASE) (BHBD).	swissprot Q45223	Lipid metabolism
7506	616.9	HEAT SHOCK 70 KD PROTEIN COGNATE 5.	swissprot P29845	Posttranslational modification, protein turnover, chaperones
7507	607.2	01232.	sptrembl Q05663	ND
7508	605.9	SERINE THREONINE-	sptrembl O94537	Signal

		PROTEIN KINASE.		transduction mechanisms
7509	597.9	FRUCTOSE-1,6-BISPHOSPHATASE (EC 3.1.3.11) (D-FRUCTOSE-1,6-BISPHOSPHATE 1-PHOSPHOHYDROLASE) (FBPASE).	swissprot P09202	Carbohydrate transport and metabolism
7510	593.3	NADH-DEPENDENT GLUTAMATE SYNTHASE.	sptrembl Q40360	Amino acid transport and metabolism
7511	585.6	AVICELASE III.	sptrembl O74170	ND
7512	577.5	HISTONE H4.1.	swissprot P23750	DNA replication, recombination and repair
7513	572.1	GLYCEROL-3-PHOSPHATE DEHYDROGENASE (FRAGMENT).	tremblnew AAB50200	Energy production and conversion
7514	568.8	HEAT SHOCK PROTEIN HSP88.	sptrembl O74225	ND
7515	564.0	DOLICHOL-PHOSPHATE MANNOSYLTRANSFERASE (EC 2.4.1.83) (DOLICHOL-PHOSPHATE MANNOSE SYNTHASE) (DOLICHYL-PHOSPHATE BETA-D-MANNOSYLTRANSFERASE).	sptrembl O14466	ND
7516	552.8	PROBABLE SYNAPTOBREVIN HOMOLOG C6G9.11.	swissprot Q92356	ND
7517	552.8	60S RIBOSOMAL PROTEIN L1-B (L10A).	swissprot O74836	Translation, ribosomal structure and biogenesis
7518	551.9	VANILLIN: NAD+ OXIDOREDUCTASE.	sptrembl O69763	ND
7519	545.5	PEROXISOMAL HYDRATASE-DEHYDROGENASE-EPIMERASE (HDE) (MULTIFUNCTIONAL BETA-OXIDATION PROTEIN) (MFP) [INCLUDES: 2-ENOYL-COA HYDRATASE (EC 4.2.1.-); D-3-HYDROXYACYL COA DEHYDROGENASE (EC 1.1.1.-)].	swissnew Q01373	ND
7520	543.1	UREASE (EC 3.5.1.5) (UREA AMIDOHYDROLASE).	sptrembl O14420	Amino acid transport and metabolism
7521	541.4	PUTATIVE SECRETED HYDROLASE.	sptrembl O69962	ND
7522	540.4	60S RIBOSOMAL PROTEIN L13.	swissprot O59931	ND
7523	535.2	BETA-GLUCOSIDASE	swissprot P07337	ND

		PRECURSOR (EC 3.2.1.21) (GENTIOBIASE) (CELLOBIASE) (BETA-D-GLUCOSIDE GLUCOHYDROLASE).		
7524	532.0	PUTATIVE TRANSCRIPTIONAL REPRESSOR C30D10.02.	sptrembl O14348	ND
7525	523.6	MYOSIN I HEAVY CHAIN.	sptrembl Q00647	ND
7526	521.8	PUTATIVE MITOCHONDRIAL CARRIER C8C9.12C.	sptrembl O14281	ND
7527	520.3	MALATE DEHYDROGENASE, MITOCHONDRIAL. PRECURSOR (EC 1.1.1.37).	swissprot P17505	Energy production and conversion
7528	518.6	U6 SNRNA-ASSOCIATED SM-LIKE PROTEIN LSM5.	tremblnew AAD56229	ND
7529	511.2	PHOSPHOGLUCOMUTASE 1 (EC 5.4.2.2) (GLUCOSE PHOSPHOMUTASE 1) (PGM 1).	swissprot P33401	Carbohydrate transport and metabolism
7530	510.1	Yeast CAAX processing enzyme Afc1p.	geneseqp W48301	Posttranslational modification, protein turnover, chaperones
7531	507.9	c424 gene product.	geneseqp R43654	ND
7532	505.8	PURINE NUCLEOSIDE PERMEASE.	sptrembl O93844	ND
7533	504.5	CHAPERONIN HSP78P.	sptrembl O74402	Posttranslational modification, protein turnover, chaperones
7534	500.8	60S RIBOSOMAL PROTEIN L26.	swissnew P78946	Translation, ribosomal structure and biogenesis
7535	499.0	STIL+.	sptrembl O13458	ND
7536	494.4	UBIQUITIN CARBOXYL-TERMINAL HYDROLASE (HOMOLOGY TO UBIQUITIN CARBOXYL-TERMINAL HYDROLASE).	sptrembl Q11119	ND
7537	491.7	HYPOTHETICAL 30.8 KD PROTEIN.	sptrembl O74710	ND
7538	487.5	TRANSLATIONALLY CONTROLLED TUMOR PROTEIN HOMOLOG (TCTP).	swissprot P35691	ND
7539	476.3	DNA BINDING PROTEIN NSDD.	sptrembl Q92226	ND
7540	475.9	60S RIBOSOMAL PROTEIN L34-A.	swissprot P87262	Translation, ribosomal structure and biogenesis
7541	469.2	HYPOTHETICAL 36.7 KD PROTEIN C2E11.10 IN	sptrembl O14075	ND

		CHROMOSOME I.		
7542	460.3	SIMILAR TO ASPARTATE AMINOTRANSFERASE.	sptrembl Q17994	ND
7543	458.0	HYPOTHETICAL 36.7 KD PROTEIN C2F7.14C IN CHROMOSOME I.	swissprot Q09704	Translation, ribosomal structure and biogenesis
7544	455.2	60S RIBOSOMAL PROTEIN L35.	swissprot P17078	Translation, ribosomal structure and biogenesis
7545	439.7	HYPOTHETICAL 53.4 KD PROTEIN (FRAGMENT).	sptrembl Q9Y7E2	ND
7546	438.1	HYPOTHETICAL 59.0 KD PROTEIN C30D11.14 IN CHROMOSOME I.	swissprot Q09911	ND
7547	435.2	NADPH-DEPENDENT ALDEHYDE REDUCTASE (EC 1.1.1.2) (ALCOHOL DEHYDROGENASE (NADP+)) (ALDEHYDE REDUCTASE (NADPH)).	sptrembl Q12707	ND
7548	428.2	60S RIBOSOMAL PROTEIN L27A (L29).	swissprot P78987	Translation, ribosomal structure and biogenesis
7549	427.9	THIOREDOXIN.	swissprot P42115	ND
7550	420.0	30 KD HEAT SHOCK PROTEIN.	swissprot P19752	ND
7551	418.0	HYPOTHETICAL 25.2 KD PROTEIN.	sptrembl Q9Y7K7	ND
7552	411.8	CALCIUM/PROTON EXCHANGER.	sptrembl O59940	ND
7553	410.0	ASPARTIC PROTEINASE.	sptrembl Q9Y740	ND
7554	409.7	ALPHA,ALPHA-TREHALASE {EC 3.2.1.28}.	tremblnew G1911650	ND
7555	409.4	HYPOTHETICAL 34.2 KD PROTEIN IN CUS1-RPL20A INTERGENIC REGION.	swissprot Q04013	ND
7556	407.7	CARBOXYLIC ACID TRANSPORTER PROTEIN HOMOLOG.	swissprot P36035	ND
7557	402.5	UBIQUITIN-CONJUGATING ENZYME E2-34 KD (EC 6.3.2.19) (UBIQUITIN-PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN) (CELL DIVISION CONTROL PROTEIN 34).	swissprot P14682	ND
7558	400.5	DIHYDROLIPOAMIDE SUCCINYLTRANSFERASE.	tremblnew AAD47296	ND
7559	398.0	NPL1 PROTEIN (SEC63 PROTEIN).	swissprot P14906	Posttranslational modification, protein turnover, chaperones
7560	395.3	HYPOTHETICAL OXIDOREDUCTASE	swissnew Q09851	ND

		C23D3.11 IN CHROMOSOME I (EC 1.-.-.-).		
7561	386.2	HYPOTHETICAL 121.8 KD PROTEIN.	sptrembl O43001	ND
7562	383.9	MDJ1 PROTEIN PRECURSOR.	swissprot P35191	Posttranslational modification, protein turnover, chaperones
7563	383.6	CONSERVED HYPOTHETICAL PROTEIN.	sptrembl O74739	ND
7564	378.5	CELL DIVISION CONTROL PROTEIN 4.	swissprot P53699	ND
7565	366.5	VACUOLAR ATP SYNTHASE SUBUNIT G (EC 3.6.1.34) (V-ATPASE 13 KD SUBUNIT) (VACUOLAR H(+)-ATPASE SUBUNIT G).	swissprot P78713	ND
7566	364.8	VIP1 PROTEIN (P53 ANTIGEN HOMOLOG).	sptrembl P87216	ND
7567	359.1	F45H11.2 PROTEIN.	sptrembl Q93725	ND
7568	357.4	CARBONIC ANHYDRASE (EC 4.2.1.1)	sptrembl Q43060	ND
7569	355.5	HYPOTHETICAL 61.3 KD PROTEIN CY369.29.	sptrembl P71838	ND
7570	353.3	ASCOSPORE MATURATION 1 PROTEIN.	sptrembl Q92251	ND
7571	351.2	OUTER MITOCHONDRIAL MEMBRANE PROTEIN PORIN.	swissprot P07144	ND
7572	350.2	HYPOTHETICAL 30.7 KD PROTEIN IN RVS161-ADP1 INTERGENIC REGION.	swissprot P25613	ND
7573	349.8	HEAT SHOCK FACTOR PROTEIN (HSF) (HEAT SHOCK TRANSCRIPTION FACTOR) (HSTF).	swissprot Q02953	ND
7574	346.1	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
7575	340.5	W02A2.5 PROTEIN.	sptrembl Q9XUB4	ND
7576	338.3	HYPOTHETICAL 32.6 KD PROTEIN IN VPS15-YMC2 INTERGENIC REGION.	swissprot P38260	ND
7577	337.0	BRANCHED-CHAIN AMINO ACID AMINOTRANSFERASE, CYTOSOLIC (EC 2.6.1.42) (BCAT) (TWT2 PROTEIN).	swissprot P47176	ND
7578	336.9	HYPOTHETICAL 34.0 KD PROTEIN IN CTF13-YPK2 INTERGENIC REGION.	swissprot Q03161	ND
7579	330.8	REHYDRIN-LIKE PROTEIN.	sptrembl O94014	ND
7580	329.1	PUTATIVE 20KDA SUBUNIT OF THE V-ATPASE.	sptrembl P87252	ND
7581	328.5	PXP-18.	tremblnew	ND

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7582	328.0	HYPOTHETICAL 49.6 KD PROTEIN IN ELM1-PR12 INTERGENIC REGION.	swissprot P36091	ND
7583	326.7	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
7584	325.9	THIOREDOXIN-LIKE PROTEIN.	tremblnew CAB54816	ND
7585	322.7	PROBABLE EUKARYOTIC TRANSLATION INITIATION FACTOR 3 RNA-BINDING SUBUNIT (EIF-3 RNA-BINDING SUBUNIT) (EIF3 P33) (TRANSLATION INITIATION FACTOR EIF3. P33 SUBUNIT).	swissprot P78795	ND
7586	320.8	MALTOSE PERMEASE.	sptrembl Q9Y845	ND
7587	318.7	HYPOTHETICAL 57.2 KD PROTEIN C12B10.16C IN CHROMOSOME I.	swissprot Q10449	ND
7588	317.3	SOL FAMILY PROTEIN HOMOLOG.	sptrembl O74455	ND
7589	317.2	CLOCK-CONTROLLED GENE-6 PROTEIN.	sptrembl O74694	ND
7590	313.4	PUTATIVE STERIGMATOCYSTIN BIOSYNTHESIS PROTEIN STCT.	swissprot Q00717	ND
7591	311.9	HYPOTHETICAL 92.4 KD PROTEIN.	sptrembl P74690	ND
7592	292.9	PUTATIVE GLUCOSYLTRANSFERASE C17C9.07 (EC 2.4.1.-).	swissprot Q10479	ND
7593	292.5	HYPOTHETICAL 22.0 KD PROTEIN IN FOX3-UBP7 INTERGENIC REGION.	swissprot P40452	ND
7594	288.6	Mutant 2,5-diketo-D-gluconic acid reductase A.	geneseqp R49932	ND
7595	282.6	PUTATIVE BRANCHED-CHAIN AMINO ACID AMINOTRANSFERASE.	sptrembl Q9Y885	ND
7596	280.5	MUCIN 2 PRECURSOR (INTESTINAL MUCIN 2).	swissprot Q02817	ND
7597	273.8	CHROMOSOME XV READING FRAME ORF Y01.092W	sptrembl Q12010	ND
7598	273.7	GLUCOSAMINE--FRUCTOSE-6-PHOSPHATE AMINOTRANSFERASE [ISOMERIZING] (EC 2.6.1.16) (HEXOSEPHOSPHATE AMINOTRANSFERASE) (D-FRUCTOSE-6-PHOSPHATE AMIDOTRANSFERASE) (GFAT).	swissprot P53704	ND
7599	272.0	H(+)/MONOSACCHARIDE	sptrembl O13411	ND

		COTRANSPORTER.		
7600	270.1	HYPOTHETICAL 36.8 KD PROTEIN.	sptrembl P71847	ND
7601	269.9	PHOSPHATIDYLETHANOLAMINE N-METHYLTRANSFERASE (EC 2.1.1.17).	swissprot P05374	ND
7602	269.8	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN).	swissprot P13983	ND
7603	269.2	HYPOTHETICAL 69.0 KD PROTEIN IN PPX1-RPS4B INTERGENIC REGION.	swissprot P38887	ND
7604	263.9	30 KD HEAT SHOCK PROTEIN.	swissprot P19752	ND
7605	261.4	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
7606	259.9	Polypeptide fragment encoded by gene 29.	geneseq Y01464	ND
7607	255.7	Klebsiella pneumoniae glycerol-3-phosphate dehydrogenase.	geneseq W60255	ND
7608	254.9	HYDROXYPROLINE-RICH GLYCOPROTEIN.	sptrembl Q42366	ND
7609	253.2	Sugar beet chitinase 1.	geneseq R28150	ND
7610	250.2	THIOREDOXIN-LIKE PROTEIN.	tremblnew CAB54816	ND
7611	247.7	P7 PREINSERTION DNA.	sptrembl Q60501	ND
7612	240.7	PROLINE-RICH CELL WALL PROTEIN.	sptrembl Q39789	ND
7613	240.5	COFILIN.	swissprot P78929	ND
7614	238.5	IUCB.	sptrembl Q9XCH3	ND
7615	238.0	Human actVA-ORF4-like protein sequence.	geneseq Y14147	ND
7616	233.1	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
7617	232.3	HYPOTHETICAL 38.8 KD PROTEIN IN MIC1-SRB5 INTERGENIC REGION.	swissprot P53259	ND
7618	232.0	HYPOTHETICAL 41.8 KD PROTEIN (FRAGMENT).	tremblnew CAB55926	ND
7619	231.3	HYPOTHETICAL 22.2 KD PROTEIN IN ERP6-TFG2 INTERGENIC REGION.	swissprot P53200	ND
7620	230.2	WP6 PRECURSOR.	sptrembl Q39492	ND
7621	228.1	D-3-PHOSPHOGLYCERATE DEHYDROGENASE (EC 1.1.1.95) (PGDH).	swissprot P73821	ND
7622	225.7	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
7623	225.5	HYPOTHETICAL PROTEIN MJ1527 PRECURSOR.	sptrembl Q58922	ND
7624	225.3	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND

7625	225.3	CELL DIVISION-ASSOCIATED PROTEIN BIMB.	swissprot P33144	ND
7626	225.0	CYSTEINE-RICH PROTEIN (FRAGMENT).	sptrembl Q16861	ND
7627	223.6	PUTATIVE UBIQUITIN CARBOXYL-TERMINAL HYDROLASE C6G9.08 (EC 3.1.2.15) (UBIQUITIN THIOLESTERASE) (UBIQUITIN-SPECIFIC PROCESSING PROTEASE) (DEUBIQUITINATING ENZYME).	swissprot Q92353	ND
7628	223.0	EPD2 PROTEIN.	sptrembl O74137	ND
7629	221.4	PROLINE-RICH CELL WALL PROTEIN.	sptrembl Q39789	ND
7630	220.5	CHROMOSOME XII COSMID 8167.	sptrembl Q05790	ND
7631	220.4	HYPOTHETICAL PROTEIN C30B4.01C IN CHROMOSOME II (FRAGMENT).	sptrembl P87179	ND
7632	219.3	26S PROTEASOME REGULATORY SUBUNIT.	sptrembl O74762	ND
7633	218.6	NEUROFIBROMATOSIS TYPE 1.	sptrembl Q9YGV2	ND
7634	217.6	30 KD HEAT SHOCK PROTEIN.	swissprot P19752	ND
7635	217.6	DNA-DIRECTED RNA POLYMERASE III 36 KD POLYPEPTIDE (EC 2.7.7.6) (C34).	swissprot P32910	ND
7636	217.3	EXTENSIN PRECURSOR (PROLINE-RICH GLYCOPROTEIN).	swissprot P24152	ND
7637	216.9	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
7638	214.5	MUCIN (FRAGMENT).	sptrembl Q14888	ND
7639	213.6	HYPOTHETICAL 141.6 KD PROTEIN.	sptrembl O59704	ND
7640	212.3	ATPASE INHIBITOR, MITOCHONDRIAL PRECURSOR.	swissprot P01097	ND
7641	209.6	AVICELASE III.	sptrembl O74170	ND
7642	207.1	CYSTEINE SYNTHASE (EC 4.2.99.8) (O-ACETYL-SERINE-SULFHYDRYLASE) (O-ACETYL-SERINE (THIOL)-LYASE) (CSASE).	swissprot P50867	ND
7643	205.8	CHROMOSOME XVI COSMID 9659.	sptrembl Q06505	ND
7644	205.4	EXTENSIN PRECURSOR (PROLINE-RICH GLYCOPROTEIN).	swissprot P14918	ND
7645	204.9	DIMERIC DIHYDRODIOL DEHYDROGENASE (EC	tremblnew BAA83488	ND

		1.3.1.20).		
7646	204.1	HYPOTHETICAL 29.3 KD PROTEIN (ORF92).	swissprot O10341	ND
7647	203.6	Intestinal mucin deduced from clone SMUC 40.	geneseqp R07670	ND
7648	202.8	PUTATIVE GLUCANASE PRECURSOR.	tremblnew CAB57923	ND
7649	202.7	PDI RELATED PROTEIN A.	sptrembl O93914	ND
7650	202.6	UTR4 PROTEIN (UNKNOWN TRANSCRIPT 4 PROTEIN).	swissprot P32626	ND
7651	201.8	HYPOTHETICAL 32.8 KD PROTEIN.	sptrembl O60110	ND
7652	199.7	EXTENSIN-LIKE PROTEIN.	tremblnew CAA22152	ND
7653	199.1	MUCIN (FRAGMENT).	sptrembl Q14887	ND
7654	198.3	HYPOTHETICAL PROTEIN KIAA0107.	swissprot Q15008	ND
7655	197.6	HYDROXYPROLINE-RICH GLYCOPROTEIN DZ-HRGP PRECURSOR.	tremblnew CAB62280	ND
7656	197.3	PIPSQUEAK PROTEIN (ORF-A SHORT).	sptrembl Q24455	ND
7657	196.8	CHA4 ACTIVATORY PROTEIN.	swissprot P43634	ND
7658	195.7	PUTATIVE ALPHA.ALPHA-TREHALOSE-PHOSPHATE SYNTHASE.	tremblnew CAB52715	ND
7659	193.6	NEURON-DERIVED ORPHAN RECEPTOR-1 BETA.	sptrembl O97727	ND
7660	193.5	HYDROXYPROLINE-RICH GLYCOPROTEIN PRECURSOR.	sptrembl Q41719	ND
7661	193.4	SPLICING FACTOR, ARGININE/SERINE-RICH 2 (SPLICING FACTOR SC35) (SC-35) (SPLICING COMPONENT, 35 KD) (PR264 PROTEIN).	swissprot Q01130	ND
7662	193.0	ALPHA/BETA-GLIADIN CLONE PW1215 PRECURSOR (PROLAMIN).	swissprot P04726	ND
7663	193.0	ORF-3.	sptrembl Q01823	ND
7664	192.1	SULFATED SURFACE GLYCOPROTEIN 185 (SSG 185).	swissprot P21997	ND
7665	191.8	RNA BINDING PROTEIN (FRAGMENT).	tremblnew BAA83714	ND
7666	191.1	PUTATIVE PROLINE-RICH PROTEIN.	sptrembl Q9ZW08	ND
7667	190.8	NAPG OXIDOREDUCTASE.	sptrembl Q9X653	ND
7668	190.0	EXTENSIN (FRAGMENT).	sptrembl Q41645	ND
7669	189.5	NADH-UBIQUINONE OXIDOREDUCTASE 21 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-21KD)	swissprot Q02854	ND

		(CI-21KD).		
7670	188.9	SALIVARY GLUE PROTEIN SGS-3 PRECURSOR.	swissprot P02840	ND
7671	188.3	DOLICHYL- DIPHOSPHOOLIGOSACCHA RIDE--PROTEIN GLYCOSYLTRANSFERASE ALPHA SUBUNIT PRECURSOR (EC 2.4.1.119) (OLIGOSACCHARYL TRANSFERASE ALPHA SUBUNIT) (OLIGOSACCHARYL TRANSFERASE 64 KD SUBUNIT).	swissprot P41543	ND
7672	188.2	CDC-LIKE PROTEIN (FRAGMENT).	sptrembl Q08837	ND
7673	186.3	PUTATIVE PROLINE-RICH PROTEIN.	sptrembl Q9ZW08	ND
7674	186.3	HYDROLASE 434 aa, chain A+B	pdb 4CEL	ND
7675	185.9	SPLICING COACTIVATOR SUBUNIT SRM300.	tremblnew AAF21439	ND
7676	184.3	HEAT SHOCK PROTEIN- LIKE PROTEIN.	sptrembl Q23323	ND
7677	183.9	PLENTY-OF-PROLINES-101.	sptrembl Q70495	ND
7678	183.3	PROLINE-RICH SALIVARY PROTEIN (FRAGMENT).	sptrembl Q62107	ND
7679	181.6	SUGAR TRANSPORTER, PUTATIVE.	tremblnew AAF12486	ND
7680	180.8	KIAA0775 PROTEIN.	sptrembl Q94873	ND
7681	179.8	GAMMA GLIADIN (FRAGMENT).	sptrembl Q41602	ND
7682	179.6	HYPOTHETICAL 61.1 KD PROTEIN (FRAGMENT).	tremblnew CAB63715	ND
7683	179.4	NADH-UBIQUINONE OXIDOREDUCTASE 21 KD SUBUNIT (EC 1.6.5.3) (EC 1.6.99.3) (COMPLEX I-21KD) (CI-21KD).	swissprot Q02854	ND
7684	179.2	PROLINE-RICH CELL WALL PROTEIN.	sptrembl Q39763	ND
7685	178.1	Amino acid sequence of a virulence factor encoded by ORF25510.	geneseqp Y29194	ND
7686	176.8	HYPOTHETICAL 47.5 KD PROTEIN IN APE3-APM3 INTERGENIC REGION.	swissprot P38355	ND
7687	176.8	LOW MOLECULAR WEIGHT GLUTENIN (FRAGMENT).	sptrembl Q41550	ND
7688	176.2	HYPOTHETICAL 57.2 KD PROTEIN.	sptrembl Q68872	ND
7689	175.9	TIG11.14 PROTEIN.	sptrembl Q23024	ND
7690	175.4	GLYCOLIPID ANCHORED SURFACE PROTEIN PRECURSOR	swissprot P22146	ND

		(GLYCOPROTEIN GPI15).		
7691	175.1	Bioadhesive precursor protein from cDNA 52.	geneseqp P82971	ND
7692	175.0	PISTIL EXTENSIN-LIKE PROTEIN.	sptrembl Q40385	ND
7693	174.7	PROLINE-RICH PROTEOGLYCAN PRPG2.	sptrembl Q07611	ND
7694	174.7	Antibiotic potentiating peptide #3.	geneseqp W21591	ND
7695	174.7	HOMEBOX PROTEIN MOX-2 (GROWTH ARREST-SPECIFIC HOMEBOX).	swissprot P39020	ND
7696	173.6	REPETIN.	swissprot P97347	ND
7697	172.9	PROTEOPHOSPHOGLYCAN (FRAGMENT).	sptrembl Q9Y075	ND
7698	172.6	Sugar beet chitinase 1.	geneseqp R28150	ND
7699	172.1	FORMYLTETRAHYDROFOLATE DEFORMYLASE (EC 3.5.1.10) (FORMYL-FH(4) HYDROLASE).	swissprot Q46339	ND
7700	171.9	HYPOTHETICAL 23.2 KD PROTEIN.	sptrembl O41979	ND
7701	170.6	CORTICOTROPIN RELEASING HORMONE RECEPTOR TYPE I (FRAGMENT).	sptrembl O77677	ND
7702	170.3	31-KDA PROLINE-RICH SALIVARY PROTEIN, COMPLETE CDS OF CLONE PUM125.	sptrembl Q62105	ND
7703	169.6	BLUE-COPPER BINDING PROTEIN III.	sptrembl Q96316	ND
7704	169.0	D9461.20P.	sptrembl Q04080	ND
7705	168.8	50KD PROLINE RICH PROTEIN.	sptrembl Q9ZBP2	ND
7706	168.3	FLGA insert stabilising polypeptide.	geneseqp W79128	ND
7707	168.1	VRG53 PROTEIN (FRAGMENT).	sptrembl Q05844	ND
7708	168.0	Mycobacterium species protein sequence 5C.	geneseqp Y04773	ND
7709	167.8	CHAPERONIN HSP78P.	sptrembl O74402	ND
7710	167.0	Microtubule-associated tau protein epitope corresp. to pos. 146-251.	geneseqp R92516	ND
7711	166.2	SPLICING FACTOR SRP54.	sptrembl O61646	ND
7712	166.1	Fragmented human NF-H gene +2 frameshift mutant product.	geneseqp W18663	ND
7713	166.0	Amino acid sequence of Huntington's gene exon 1 in GST-HD fusion protein.	geneseqp W95071	ND
7714	165.8	BIFID PROTEIN (OPTOMOTOR-BLIND PROTEIN).	sptrembl Q26303	ND
7715	165.6	212AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YEG1	ND

7716	164.5	Amino acid sequence of a virulence factor encoded by ORF31784.	geneseqp Y29225	ND
7717	164.4	SIMILAR TO CUTICULAR COLLAGEN.	sptrembl Q19813	ND
7718	164.4	Amino acid sequence of a virulence factor encoded by ORF32832.	geneseqp Y29230	ND
7719	164.2	ZINC-FINGER PROTEIN.	sptrembl O74308	ND
7720	163.9	BAT2.	sptrembl Q9Z1R1	ND
7721	163.7	PAD-1.	sptrembl Q9Y7A8	ND
7722	163.3	TRANSCRIPTION FACTOR BF-2 (BRAIN FACTOR 2) (BF2) (HFK2).	swissprot P55316	ND
7723	163.2	HYPOTHETICAL 27.0 KD PROTEIN.	sptrembl P95286	ND
7724	163.0	A-AGGLUTININ ATTACHMENT SUBUNIT PRECURSOR.	swissprot P32323	ND
7725	162.4	Trichoderma reesei endoglucanase.	geneseqp R83401	ND
7726	162.1	T12F5.5 PROTEIN.	sptrembl O44760	ND
7727	162.0	RNA BINDING PROTEIN (FRAGMENT).	tremblnew BAA83717	ND
7728	161.9	TRANSDUCIN-LIKE ENHANCER PROTEIN 4 (GROUCHO-RELATED PROTEIN 4) (FRAGMENT).	swissnew Q62441	ND
7729	161.5	Mycobacterium species protein sequence 14Q#2.	geneseqp Y07202	ND
7730	161.3	SWI/SNF COMPLEX 170 KDA SUBUNIT.	sptrembl Q92923	ND
7731	161.1	HIV Tat protein.	geneseqp Y05097	ND
7732	160.7	HYPOTHETICAL 118.4 KD PROTEIN IN BAT2-DAL5 INTERGENIC REGION PRECURSOR.	swissprot P47179	ND
7733	160.6	COMES FROM THIS GENE.	sptrembl O23054	ND
7734	160.6	PYRUVATE DEHYDROGENASE E1 COMPONENT ALPHA SUBUNIT (EC 1.2.4.1) (PYRUVATE DEHYDROGENASE (LIPOAMIDE)) (PYRUVATE DECARBOXYLASE) (PYRUVIC DEHYDROGENASE).	sptrembl O13392	ND
7735	160.6	GLYCINE-RICH PROTEIN.	sptrembl Q43308	ND
7736	160.5	METHYLTRANSFERASE.	sptrembl Q51774	ND
7737	160.4	RHBA.	tremblnew AAF24249	ND
7738	160.3	ULTRA-HIGH SULPHUR KERATIN.	sptrembl Q64526	ND
7739	160.2	PROLYL AMINOPEPTIDASE.	sptrembl P94800	ND

7740	159.9	HOMEODOMAIN PROTEIN GBX-2 (GASTRULATION AND BRAIN-SPECIFIC HOMEODOMAIN PROTEIN 2).	swissprot P52951	ND
7741	159.6	PUTATIVE MEMBRANE PROTEIN.	sptrembl Q9X780	ND
7742	159.4	Human secreted protein encoded by gene 41c lone HSZAF47.	geneseq Y02690	ND
7743	159.0	Human apolipoprotein E gene +2 frameshift mutant product.	geneseq W18652	ND
7744	158.6	HYPOTHETICAL 9.0 KD PROTEIN (FRAGMENT).	sptrembl Q9XSS3	ND
7745	158.4	ORF993.	sptrembl P72344	ND
7746	158.2	ORF1B	sptrembl Q47393	ND
7747	157.7	SMR2 PROTEIN PRECURSOR.	swissprot P18897	ND
7748	157.5	RECOMBINATION PROTEIN RECR.	swissprot P24277	ND
7749	157.3	Human alpha 5 (IV) of type IV collagen.	geneseq R23873	ND
7750	157.1	PROLINE-RICH PROTEIN.	tremblnew CAB62486	ND
7751	156.5	GAMMA PROTEIN CONSTANT REGION (FRAGMENT).	sptrembl Q23723	ND
7752	156.1	NK-TUMOR RECOGNITION MOLECULE-RELATED PROTEIN.	sptrembl O43273	ND
7753	155.6	SPLICING FACTOR, ARGININE/SERINE-RICH 7 (SPLICING FACTOR 9G8).	swissnew Q16629	ND
7754	154.3	ACETYLCHOLINESTERASE -ASSOCIATED COLLAGEN (FRAGMENT).	sptrembl O35348	ND
7755	153.8	PROBABLE PROTEIN KINASE.	tremblnew CAB55520	ND
7756	153.6	Human high mobility group protein HMGI-C wild type fragment 2.	geneseq Y21432	ND
7757	153.6	NANBH virus antigenic fragment #12.	geneseq R50080	ND
7758	153.6	Del-1 epidermal growth factor like domain #2.	geneseq W94687	ND
7759	153.5	SH3 DOMAIN BINDING PROTEIN.	sptrembl Q62775	ND
7760	153.3	COLLAGEN ALPHA 5(IV) CHAIN (FRAGMENT).	swissprot Q28247	ND
7761	153.0	SALIVARY GLUE PROTEIN SGS-3 PRECURSOR.	swissprot P13729	ND
7762	152.5	MRNA EXPRESSED IN CUCUMBER HYPOCOTYLS. COMPLETE CDS.	sptrembl Q9XIV1	ND
7763	152.4	PROTEOPHOSPHOGLYCAN PRECURSOR (FRAGMENT).	sptrembl Q9Y076	ND
7764	152.3	ARL-6 INTERACTING	sptrembl	ND

		PROTEIN-5 (FRAGMENT).	Q9WUG9	
7765	150.4	HYPOTHETICAL 70.4 KD PROTEIN IN SNZ1-YPK2 INTERGENIC REGION.	swissprot Q03153	ND
7766	150.3	L779.3 PROTEIN.	sptrembl Q9XTP1	ND
7767	150.3	Fragment of human secreted protein encoded by gene 15.	geneseqp Y36459	ND
7768	150.3	HOX1B PROTEIN.	sptrembl O24569	ND
7769	149.8	HYPOTHETICAL 13.9 KD PROTEIN.	tremblnew AAF19661	ND
7770	149.7	Mycobacterium species protein sequence 50B.	geneseqp Y04998	ND
7771	149.6	T06E4.11 PROTEIN.	sptrembl Q22265	ND
7772	148.8	Avian reovirus strain 138 sigma 3 protein.	geneseqp Y06109	ND
7773	148.3	GSC-2.	sptrembl O15499	ND
7774	148.2	CODED FOR BY C. ELEGANS CDNA YK127B8.5.	sptrembl Q20648	ND
7775	147.8	ORF225.	sptrembl Q44479	ND
7776	146.8	WD-40 domain-contg. TUP1 homolog protein.	geneseqp R85879	ND
7777	146.8	EN/SPM-LIKE TRANSPOSON PROTEIN.	tremblnew AAD20682	ND
7778	146.5	PROLINE RICH PROTEIN.	sptrembl O22514	ND
7779	146.4	Secreted protein encoded by gene 6 clone HTSEW17.	geneseqp Y01388	ND
7780	146.3	HOMEBOX PROTEIN GBX-2 (GASTRULATION AND BRAIN-SPECIFIC HOMEBOX PROTEIN 2).	swissprot P52951	ND
7781	145.6	NUCLEOPLASMIN.	swissnew P05221	ND
7782	145.3	TYROSINE-PROTEIN KINASE ACK (EC 2.7.1.112).	sptrembl Q07912	ND
7783	144.9	INTEGRIN BETA-SUBUNIT.	sptrembl Q27874	ND
7784	144.2	SIMILARITY WITH WILMS' TUMOR PROTEIN.	sptrembl Q18233	ND
7785	143.5	F25965_3.	sptrembl O14560	ND
7786	142.5	HYPOTHETICAL 38.0 KD PROTEIN.	sptrembl O06232	ND
7787	142.5	DAN26 PROTEIN, PARTIAL (FRAGMENT).	sptrembl Q99492	ND
7788	142.2	ATTACHMENT REGION BINDING PROTEIN (FRAGMENT).	sptrembl O42403	ND
7789	142.1	S-1 AYER RFI ATFD PROTEIN PRECURSOR.	swissprot P35824	ND
7790	141.9	NONSTRUCTURAL POLYPROTEIN (FRAGMENT).	sptrembl Q9W181	ND
7791	141.9	ATTI.	sptrembl Q9WWD7	ND
7792	141.3	ENDOGLUCANASE IV.	sptrembl O14405	ND
7793	141.1	GAMMA-GLIADIN PRECURSOR (FRAGMENT).	swissprot P08079	ND
7794	140.9	Mycobacterium species protein	geneseqp Y04923	ND

		sequence 36B.		
7795	140.9	VPR.	sptrembl O90320	ND
7796	140.8	NUCLEAR ANTIGEN EBNA-3B.	sptrembl Q69139	ND
7797	140.4	TRANSCRIPTIONAL ACTIVATOR PROTEIN METR.	swissprot P19797	ND
7798	140.4	CALCIUM-DEPENDENT PROTEIN KINASE.	sptrembl O82107	ND
7799	139.1	(HHV-6).	sptrembl Q89893	ND
7800	139.1	HYPOTHETICAL 12.0 KD PROTEIN (FRAGMENT).	sptrembl O43409	ND
7801	138.9	SMAD6 PROTEIN.	tremblnew AAF14343	ND
7802	138.9	ARGININE SERINE-RICH PROTEIN.	tremblnew AAF19004	ND
7803	138.8	107AA LONG HYPOTHETICAL PROTEIN.	sptrembl Q9YCW7	ND
7804	137.9	Human fibrosarcoma cell line HT-1080 clone HP10034 protein.	geneseqp W64540	ND
7805	137.9	Extracellular domain of mouse syndecan-3 protein.	geneseqp R66810	ND
7806	137.8	SIMILAR TO FURIN-LIKE PROTEASES.	sptrembl Q93015	ND
7807	137.7	PROTEASOME COMPONENT SUN4.	swissprot P53616	ND
7808	137.6	HYPOTHETICAL 26.9 KD PROTEIN.	tremblnew AAF10289	ND
7809	137.2	HYPOTHETICAL 22.1 KD PROTEIN.	sptrembl P94570	ND
7810	137.1	WINGLESS (FRAGMENT).	tremblnew AAD50945	ND

Example 15: DNA Microarrays

Details of the construction of a typical microarrayer can be found on the world wide web site of Professor Patrick Brown of Stanford University at the following URL:

5 <http://cmgm.stanford.edu/pbrown/mguide/index.html>. Scanners and computer software for analysis of DNA microarrays are available from several commercial sources such as General Scanning Inc. (Watertown, MA; see http://www.genscan.com/sales/loc_lifesci.html), or Axon Instruments (Foster City, CA; see <http://www.axon.com>).

10 Individual fungal EST clones were purified as plasmid minipreps using Qiagen Biorobot 9600 (QIAGEN, Inc., Valencia, CA). The plasmid minipreps were precipitated with isopropanol, aliquoted and stored as described on the web site of Professor Patrick Brown of Stanford University at the following URL: <http://cmgm.stanford.edu/pbrown/mguide/index.html>.

The amplified EST targets prepared in this manner were spotted individually onto polylysine-coated glass slides using a microarrayer device as described by DeRisi *et al.* (1997, *Science* 278: 680-686). For additional details, see <http://cmgm.stanford.edu/pbrown/protocols/index.html>). The microarrays were probed with
5 fluorescently labeled cDNA prepared by reverse transcription of polyadenylated mRNA (DeRisi *et al.*, 1997, *supra*) extracted from fungal mycelia (Example 2). Conditions for pretreatment of the microarrays, hybridization and washing conditions have been described previously (DeRisi *et al.*, 1997, *supra*; see also <http://cmgm.stanford.edu/pbrown/protocols/index.html>).

10 To increase the reliability with which changes in expression levels could be discerned, probes prepared from induced or treated cells were labeled with the red fluorescent dye, Cy5 (Amersham Corporation, Arlington Heights, IL), and mixed with probes from uninduced, untreated, or "reference" cells were labeled with a green fluorescent dye, Cy3 (Amersham Corporation, Arlington Heights, IL) using the procedure described by
15 <http://cmgm.stanford.edu/pbrown/protocols/index.html>. The relative ratio of fluorescence intensity measured for the Cy3 and Cy5 fluorophors corresponding to each EST target in the arrays was determined using ScanAlyze software, available free of charge at <http://rama.stanford.edu/software/>. This provides a reliable measure of the relative abundance of the corresponding mRNA in the two cell populations (*e.g.*, treated cells versus reference
20 cells).

Example 16: Monitoring multiple changes in expression of *Fusarium venenatum* genes

DNA microarrays were prepared as described in the preceding example by spotting 1152 selected EST clones from *Fusarium venenatum* as targets. In one experiment we
25 compared the relative expression of each of these genes (as measured by transcript abundance) among cells grown in medium with glucose as the sole carbon source to the same strain grown with maltose as the sole carbon source. Identical shake flasks were inoculated with *Fusarium venenatum* strain CC1-3 growing in Vogel's minimal medium with either 2% glucose or 2% maltose as the sole carbon source. After 2 days growth at 28°C, total RNA and
30 mRNA pools were purified from each culture using methods described in the previous examples. One microgram of polyA-selected mRNA was used as a template to prepare fluorescently labeled probes for hybridization (the protocol for fluorescent probe labeling is

available at <http://cmgm.stanford.edu/protocols/index.html>). In this experiment, the probe from glucose-grown cells was labeled with Cy3 and the probe from maltose-grown cells was labeled with Cy5. The probes were combined and hybridized with the 1152 EST targets on the microarray. Methods for hybridization and washing of microarrays are also available at <http://cmgm.stanford.edu/protocols/index.html>. After hybridization and washing, the microarrays were scanned (see Example 15), and the images analyzed using ScanAlyze software (see Example 15) to determine the relative ratios of red and green fluorescence in each spot on the arrays. The tab-delimited text file generated by ScanAlyze can be imported into other software programs that are capable of sorting large amounts of data in spreadsheet formats (e.g., Microsoft Excel). In such a format, it is straightforward to sort the data on the basis of relative fluorescence ratios (red intensity/green intensity = RAT2 value) or perform other statistical analyses. For example, in this experiment it was desirable to specifically identify those genes whose expression (a) increased by a factor of approximately two, (b) remained the same, or (c) decreased by a factor of approximately two in response to the presence of maltose as a sole carbon source. A number of genes satisfying these criteria were readily identified as shown in Table 5. The quality of the data is ensured by choosing only spots in which the correlation coefficients are at least 0.75 or greater.

Table 5

<u>Seq ID No.</u>	<u>RAT2.exp1</u>	<u>RAT2.exp2</u>	<u>AVG RAT2</u>	<u>Std Error</u>
1902	3.84631093	1.90100237	2.87365665	0.97265428
170	1.43757588	3.08897138	2.26327363	0.82569775
1590	1.34067691	2.90504405	2.12286048	0.78218357
2342	2.48104772	1.74101079	2.11102925	0.37001846
2887	2.15781008	2.04587664	2.10184336	0.05596672
1290	2.18673515	2.00682358	2.09677936	0.08995579
1849	1.60461815	2.58254133	2.09357974	0.48896159
2718	1.07601253	1.13379863	1.10490558	0.02889305
2875	1.04636434	1.13480645	1.0905854	0.04422106
115	1.08685943	1.07748663	1.08217303	0.0046864
115	1.08252067	1.06766038	1.07509053	0.00743015
1453	1.09264445	1.0495196	1.07108202	0.02156242
1677	1.07456628	1.05581848	1.06519238	0.0093739
608	1.00586924	1.10205227	1.05396076	0.04809151
33	1.1157845	0.98879838	1.05229144	0.06349306
2768	1.08902881	0.9954752	1.04225201	0.04677681
336	1.08107442	0.97569671	1.02838557	0.05268885
1855	1.06155	0.99446738	1.02800869	0.03354131
1469	1.04708747	1.00026235	1.02367491	0.02341256
2951	0.46005321	0.6007873	0.55655	0.0084234
71	0.44219198	0.53023983	0.4862159	0.04402392
521	0.23356992	0.76644788	0.4657	0.18741504

The invention described and claimed herein is not to be limited in scope by the

specific embodiments herein disclosed, since these embodiments are intended as illustrations of several aspects of the invention. Any equivalent embodiments are intended to be within the scope of this invention. Indeed, various modifications of the invention in addition to those shown and described herein will become apparent to those skilled in the art from the
5 foregoing description. Such modifications are also intended to fall within the scope of the appended claims. In the case of conflict, the present disclosure including definitions will control.

Various references are cited herein, the disclosures of which are incorporated by reference in their entireties.